

**PERIYAR INSTITUTE OF DISTANCE EDUCATION
(PRIDE)**

**PERIYAR UNIVERSITY
SALEM - 636 011.**

**BACHELOR OF COMPUTER APPLICATIONS (B.C.A)
THIRD YEAR
PRACTICAL – III : PROGRAMMING IN VISUAL BASIC**

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FOREWORD

“In human affairs we have reached a point where the problems that we must solve are no longer solvable without the aid of computers. I fear not computers but the lack of them”

Issac Asimov

Dear Students,

The importance of computers is felt in every field and it has become an integral part of our society. This book has been planned in a way that an in depth learning about **IDE (Integrated Development Environment) Event Driven Programming Language VISUAL BASIC** practical programs. The syllabus is mainly focused on Windows Environment practical. The **VISUAL BASIC** is a GUI based language used to create an application for real life problems.

This booklet consists of 7 practical programs. In this booklet contains all the practical programs with procedure, form design, output form and reports. It has an introduction about **VISUAL BASIC IDE** windows and steps to create a program.

BACHELOR OF COMPUTER APPLICATIONS (B.C.A)

THIRD YEAR

PRACTICAL – III : PROGRAMMING IN VISUAL BASIC

List of Practical:

1. Construction of an Arithmetic Calculator (Simple).
2. Preparation of Students Mark Sheet.
3. Personal Information System (Using Tables).
4. Quiz Program System (Using Tables).
5. Railways Reservation System (Using Tables).
6. Voters Information System (Using Tables).
7. Library Information System (Using Tables).

Programming in VISUAL BASIC

Introduction

Visual Basic (VB) is an event driven programming language. An “Event” refers to an action on controls. Visual Basic allows us to write code to respond to such action. The word “Visual” refers to the method used to create the Graphical User Interface (GUI). And the word “Basic” refers to the BASIC Language, which is used by more programmers to learn about computer program.

Windows operating system and its applications became popular because of its easy, user-friendly processing method through GUI (Graphical User Interface). The window GUI is event driven. Like window, VB also helps us to create application similar as GUI.

One of the most significant changes in VB is the Integrated Development Environment (IDE). IDE is a term commonly used in the programming world to describe the interface and environment that we use to create our application. It is called integrated because we can access virtually all of the development tools that we need from one screen called an interface. The IDE is also commonly referred to as the design environment, or the program.

Steps to develop a VB application

We have to follow the following steps to make VB program

Step 1 : Design the User Interfaces as forms.

Step 2 : Write code to respond to User Input / Events.

The User Interface is formed by using the controls and its properties, code to an event performed on those controls.

Controls

A control is an object on the form. It makes user-friendly input and output formats for the applications.

Ex:

Text box

Check box

Combo box

Image box

Data control

Properties

The developer should give some attribute values to controls. This attribute values are simply known as properties of that control. These controls are used to do some activities.

Ex :

Control : Text box

Properties : Name, length, size, value etc.

Events

Event is an action. When we make an event on control that it invoke its associated method.

Ex:

Click

Double Click

Mouse over

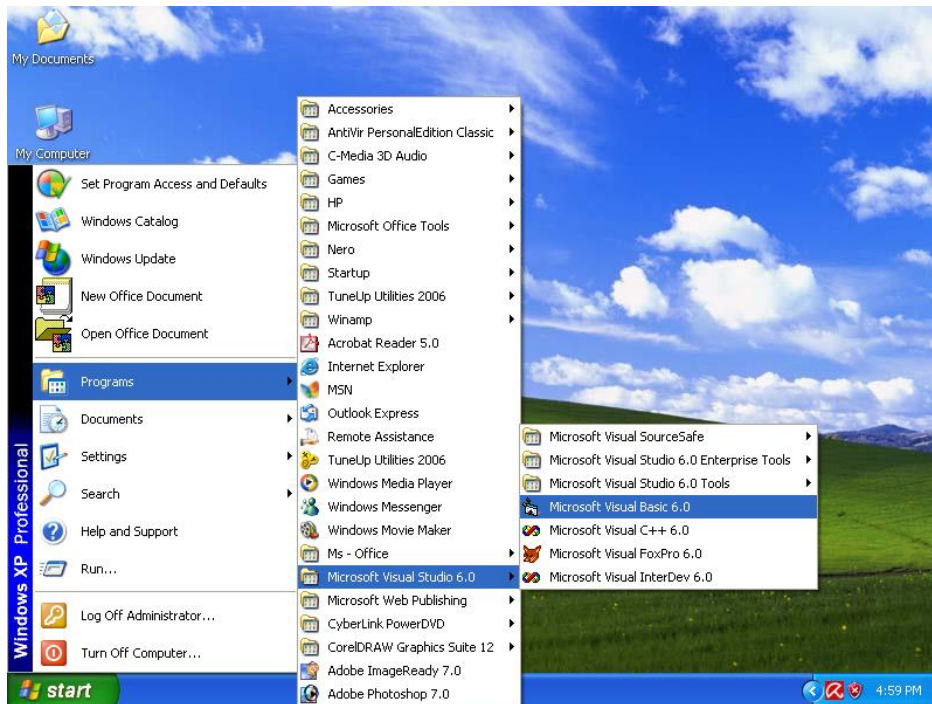
Methods

The action taken when the event occurs is the method. It is a block of statements to do the actions on the controls.

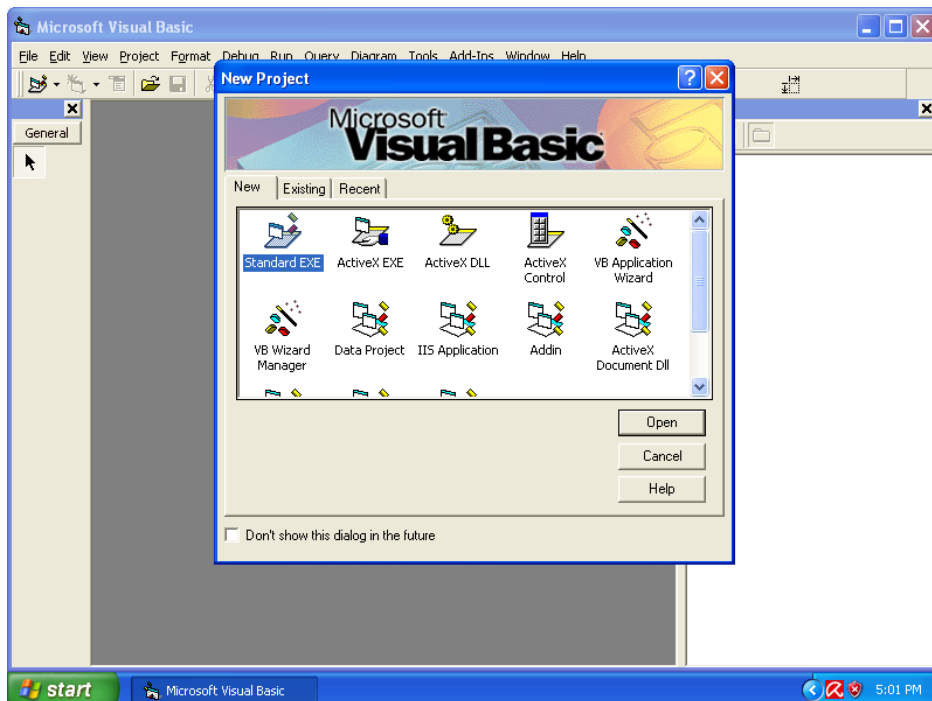
Getting into Visual Basic

Click on desktop

Start -> Programs - > Microsoft Visual Studio 6.0 -> Microsoft Visual Basic 6.0



Now it shows a “New Project window” in Microsoft Visual Basic screen.



It has three tabs

1. **New** – Default tab. It displays so many icons, which represent project type.
2. **Existing** – It will display the existing VB projects on system.
3. **Recent** – It will display the projects on which we have recently worked.

The “new” tab has the following icons to represent the project types.

Standard EXE – It is used to develop a small or large standalone application.

ActiveX EXE – Used to create an executable components in which executed from other application.

ActiveX DLL – It provides added functionality in which executed from our application.

ActiveX control – It is used to create a custom ActiveX control that can be used in other application. It is like third party software

VB Application Wizard – It helps us to create a new VB application from existing profile

VB Wizard manager – It helps us to arrange and control the wizards

Data Project – Used to provide the background details about the project

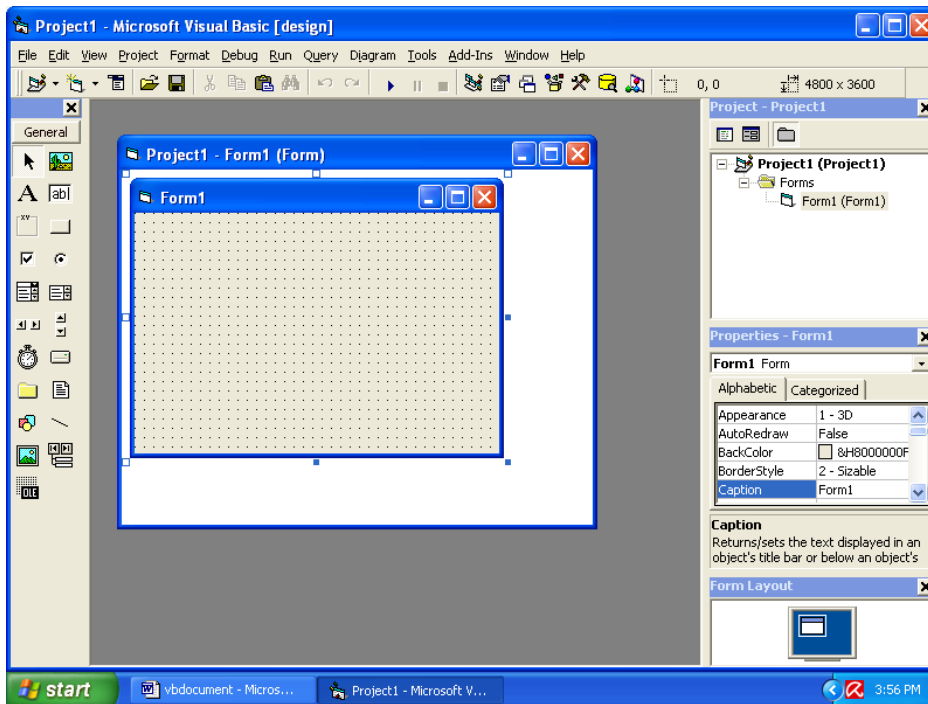
IIS Application – It helps to create an Internet application

Addin – Used to include the control manager of application

Activex document Exe – Creates a component that can takes over the application at runtime.

DHTML Application – Creates an application that can be executed from a web browser only.

If we want to open a home page on VB for new project click on “Standard EXE” in “New” tab. It shows a window look like a following screen.



This screen has the following integral window parts.

i. Title bar

It shows the title of project on VB and it has minimize, Restore and close button on top right corner. This title tells us that we are currently working on project (Title) and we are in the design stage or design mode. There are two other modes. One is “Run” – The program is in run mode what it will execute. Other one is “Break” – The program is in break mode what it has error (Debugging).

ii. Menu bar

It shows so many menus and list out its options when we click on it.

File Edit View Project Format Debug Run Query Diagram Tools Add-Ins Window Help

File menu – Used to Open, Close, Save, Print and make an existing or new file. Ctrl + F is a shortcut key to open it.

Edit menu – Used to make all editing process such as Cut, Copy, Paste, Find, Undo, Redo etc., Ctrl + E is a shortcut key to open it.

View menu – Used to view the various part of our program. Ctrl + V is a shortcut key to open it.

Project menu – Used to inserting and removing forms, objects, modules, data reports etc., to our project.

Format menu – used to place and arrange the controls in the form.

Debug menu – To remove the control that have crept in.

Run menu – To compile, start and stop a program.

Query menu– Used to verify and execute a query.

Tools menu – To add procedure and customize the environment of project.

Add-Ins menu – To add tools like data manager and other wizards.

Window menu – Arrange the appearances of various windows on the desktop.

Help menu – Used for the online help that every programmer needs to refer to.

iii. Standard tool bar

It has various icons to make some process in menu bars like Cut, Copy, New project etc.,

iv. Tool box

Usually it located on left side on window. It has various tools to design a form in application.



- Selection tool : Used to select an object on form.



- Picture box : Display a graphical picture from a bitmap or metafile.



- Label box : Display the caption text.



- Text box : To display or accept text input.



- Frame : Used to frames a control



- Command button : Instruct to a procedure by means of applying events on it.



- Check box : Used to select more than one choice among list.



- Option button : Used to select only one choice among list



- Combo box : Used to select any one option from list. (Or) Enter new value in

text box. It added with existing item.



- List box : List out the items.



- Horizontal scroll bar : If the project has long item in horizontally, it is used to

indicate the current position on a scale.



- Vertical scroll bar : If the project has long item in vertically, it is used to indicate the current position on a scale.



- Timer : Used to fix the timer on project.



- Drive : Used to display available drives



- Directory : Used to display available directories.



- List control : Used to display available files.



- Shape and Line controls : Used to draw lines, squares, circles etc.,



- Image box : Like picture box. Display an image.



- Data control : Permit us to access to databases through the controls on project form.



- OLE (Object Linking and Embedding) : Used to link a program with another object or programs.

v. Project Explorer window

Usually located on the right side of project window. It organizes the application as one project. All the code and controls that are used in the applications are stored in separate files. It has an interface to deal with the project. It has three icons.

1. To view the code
2. To view the controls
3. To show or hide the forms.

vi. Property window

It displayed below the project explorer window. It lists all properties for a selected object on form. We can change and set the property values according to need of an object.

vii. Form Layout window

It displayed below the property window. It allows us to position the form in application using a small graphical representation of the screen.

viii. Immediate, Local and Watch windows

These windows are used to debugging our application. They are only available at run time of our application.

ix. Object browser

It lists objects available in libraries. Every object has its methods and properties associated it.

x. Form designer

It used to design a form interfaces in format.

xi. Code editor window

It used to entering and editing application code.

Steps to make an Program

Step 1 : Open new project in Visual Basic

Step 2 : Design a form using required interfaces and sets its properties

Step 3 : Edit a code to all required interfaces with its events

Step 4 : Create a data base

Step 5 : Connect the application with its data base

Step 6 : Compile and Execute the application.

Program 1 : Construction of an Arithmetic Calculator (Simple).

Aim :

Design a project to create an Arithmetic calculator.

Procedure :

Step 1: Open a new VB project.

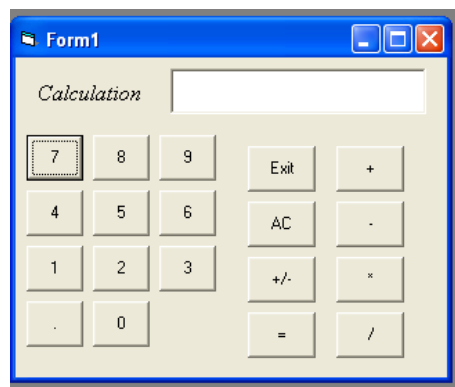
Step 2 : Place the command button on form similar to the simple calculator.

Step 3 : Place the text boxes to display the result and set the properties of it.

Step 4 : Based on the event on controls do appropriate task.

Step 5 : Display the result.

Form Design



Program

Construction of an Arithmetic Calculator (Simple).

```
Dim cur As Double
```

```
Dim pre As Double
```

```
Dim res As Double
```

```
Dim ch As String
```

```
Dim sta As Integer
```

```
Private Sub AC_Click()
```

```
cur = pre = 0
```

```
Text1.Text = " "
```

```
End Sub
```

```
Private Sub ADD_Click()
```

```
sta = 1
```

```
pre = cur
```

```
cur = 0
```

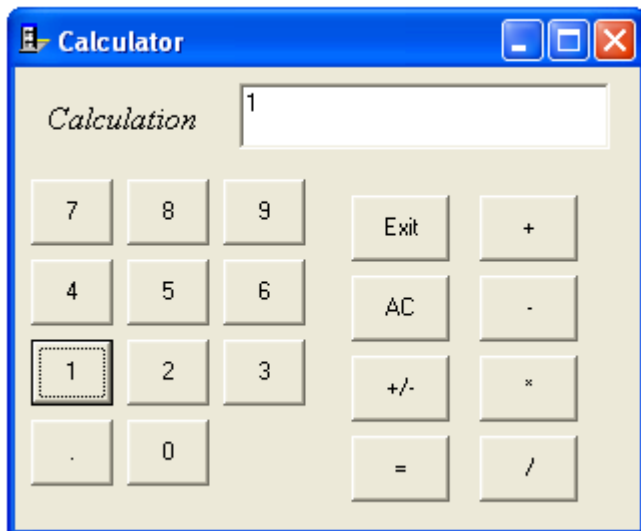
```
ch = "+"
```

```

End Sub
Private Sub Command1_Click(Index As Integer)
If sta = 1 Then Text1.Text = " "
Text1.Text = Text1.Text & Command1(Index).Caption
cur = Val(Text1.Text)
sta = 0
End Sub
Private Sub div_Click()
sta = 1
pre = cur
cur = 0
ch = "/"
End Sub
Private Sub Equal_Click()
Select Case ch
Case "+"
res = pre + cur
Text1.Text = Str(res)
Case "-"
res = pre - cur
Text1.Text = Str(res)
Case "*"
res = pre * cur
Text1.Text = Str(res)
Case "/"
res = pre / cur
Text1.Text = Str(res)
End Select
cur = res
End Sub
Private Sub Exit_Click()
Unload Me
End Sub

```

```
Private Sub Form_Load()  
sta = 0  
End Sub  
Private Sub MUL_Click()  
sta = 1  
pre = cur  
cur = 0  
ch = "*"   
End Sub  
Private Sub Plus_Click()  
cur = -cur  
Text1.Text = Str(cur)  
End Sub  
Private Sub SUB_Click()  
sta = 1  
pre = cur  
cur = 0  
ch = "-"   
End Sub  
Outputn
```



Program 2 : Preparation of Students Mark Sheet.

Aim :

Design a project to maintain students mark details.

Procedure :

Step 1: Open a new VB project.

Step 2 : Design a form using controls and set the properties of controls.

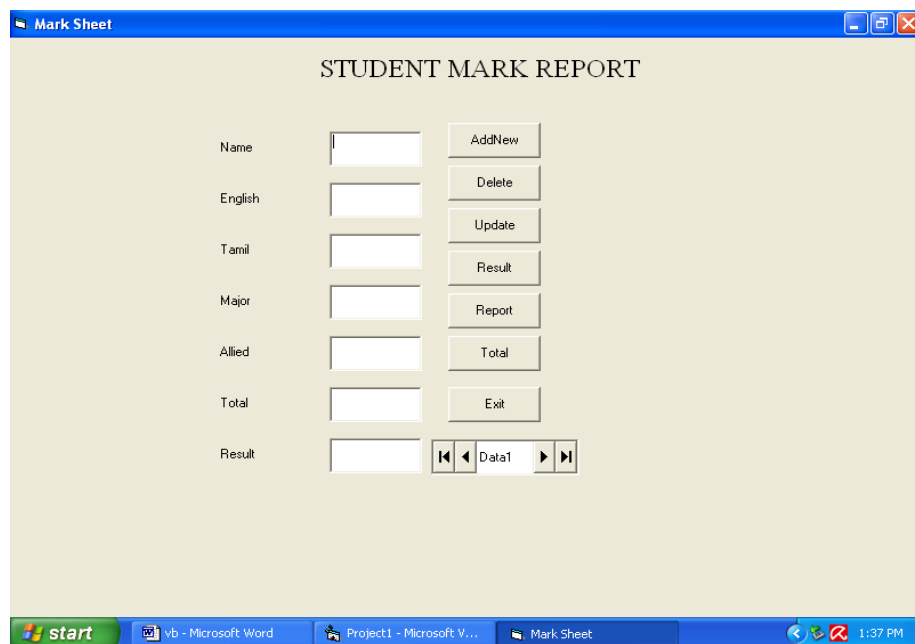
Step 3 : Design a database for maintaining students details.

Step 4 : Connect the database to the form and display the details.

Step 5 : Using the events on controls do necessary manipulations.

Step 6 : Display the results and data reports.

Form Design



Program

Preparation of Students Mark sheet

```
Private Sub Command1_Click()
```

```
Text1.SetFocus
```

```
Data1.Recordset.AddNew
```

```
End Sub
```

```
Private Sub Command2_Click()
```

```
Data1.Recordset.Delete
```

```
End Sub
```



```

Private Sub Command3_Click()
Data1.Recordset.Update
End Sub
Private Sub Command4_Click()
If Text2.Text > 39 And Text3.Text > 39 And Text4.Text > 39 And Text5.Text
> 39 Then
Text7.Text = "Pass"
Else
Text7.Text = "Fail"
End If
End Sub
Private Sub Command5_Click()
DataReport1.Show
DataReport1.WindowState = 2
End Sub
Private Sub Command6_Click()
End
End Sub
Private Sub Command7_Click()
Text6.Text = Val(Text2.Text) + Val(Text3.Text) + Val(Text4.Text) +
Val(Text5.Text)
End Sub
Private Sub Command8_Click()
If Val(Text2.Text > 39) And Val(Text3.Text > 39) And Val(Text4.Text > 39)
And Val(Text5.Text > 39) Then
Text7.Text = "Pass"
Else
Text7.Text = "Fail"
End If
End Sub

```

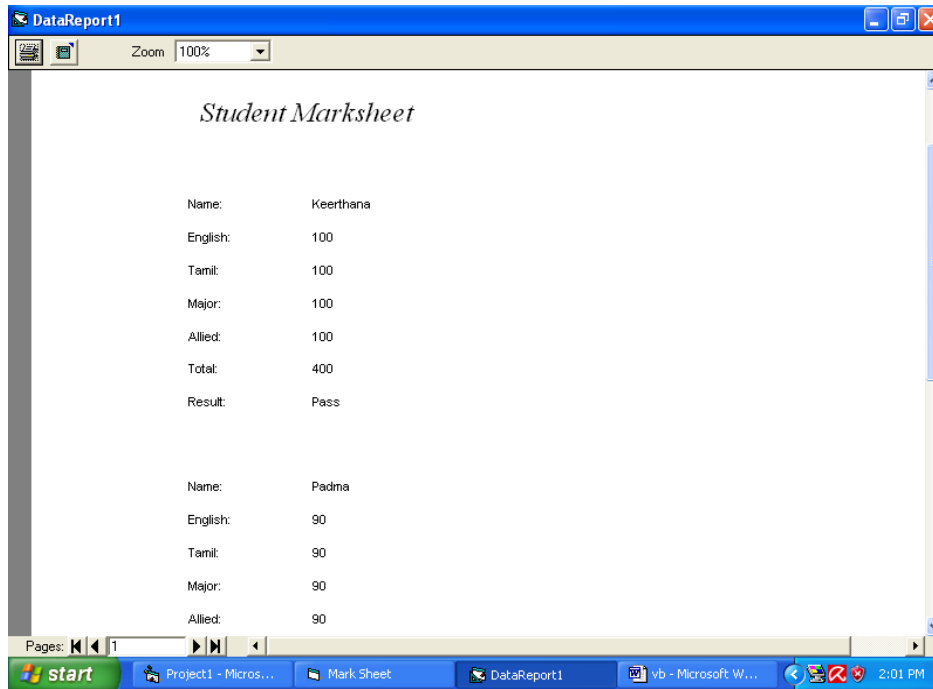
OUTPUT

The screenshot displays a Windows application window titled "Mark Sheet". The main content area is titled "STUDENT MARK REPORT" and contains a form with the following fields and buttons:

Name	Keerthana	AddNew
English	100	Delete
Tamil	100	Update
Major	100	Result
Allied	100	Report
Total	400	Total
Result	Pass	Exit

At the bottom of the form, there are navigation buttons: a double left arrow, a single left arrow, a text box containing "Data1", a single right arrow, and a double right arrow.

The Windows taskbar at the bottom shows the Start button and several open applications: "vb - Microsoft Word", "Project1 - Microsoft V...", and "Mark Sheet". The system clock in the bottom right corner indicates the time is 1:39 PM.



Program 3 : Personal Information System (Using Tables).

Aim :

Design a project to maintain people personal information.

Procedure :

Step 1: Open a new VB project.

Step 2 : Design a form using controls and set the properties of controls.

Step 3 : Design a database for maintaining students details.

Step 4 : Connect the database to the form and display the details.

Step 5 : Using the events on controls do the process such as insertion, deletion, updation on database.

Step 6 : Display the data reports.

Form Design

Form1

Personal Details

Name:

Address:

Gender:

D.O.B:

Blood group:

Phone:

Navigation:

Windows Taskbar: start | padhuvb | vb - Microso... | Microsoft A... | Project1 - M... | Form1 | 5:55 PM

Program

```
Private Sub Command1_Click()  
Data1.Recordset.AddNew  
Text1.SetFocus  
End Sub  
Private Sub Command2_Click()  
Data1.Recordset.Delete  
End Sub  
Private Sub Command3_Click()  
Data1.Recordset.Update  
End Sub  
Private Sub Command4_Click()  
DataReport1.Show  
End Sub  
Private Sub Command5_Click()  
End  
End Sub
```

Output

Personal Details

Name: mani Addnew

Address: salem Delete

Gender: m Update

D.O.B: 5/20/1985 Report

Blood group: B+ Cancel

Phone: 25999

Navigation: Data1

Taskbar: start | padhuvb | vb - Microso... | Microsoft A... | Project1 - M... | Form1 | 5:56 PM

Personal Details

Name: mani
Address: salem
Gender: m
DOB: 5/20/1985
Blood: B+
Phone: 25999

Name: Makrandan
Address: T.Gode
Gender: m
DOB: 6/25/1984
Blood: A+
Phone: 24789

Taskbar: start | Project1 - Microsof... | Form1 | DataReport1 | padhuvb | 2:33 PM

Program 4 : Quiz Program System (Using Tables).

Aim :

Design a project to form queries to conduct a quiz program.

Procedure :

Step 1: Open a new VB project.

Step 2 : Design a form using controls and set the properties of controls.

Step 3 : Set the maximum time in timer control property to time out the quiz program.

Step 4 : Design a database for maintaining participants score in quiz.

Step 5 : Connect the database to the form and display the details.

Step 6 : Using the events on controls do the necessary processes.

Step 7 : Display the score of participant.

Form Design

Form1

QUIZ PROGRAM
FIRST ROUND

Who Is The Father Of Computer?

Edward
 Richard
 Charless Babbage

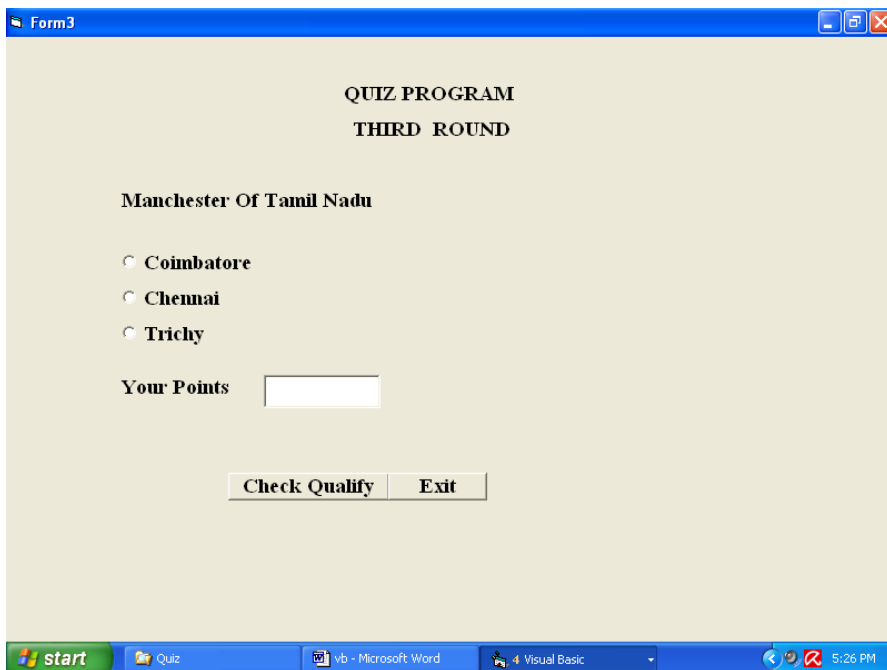
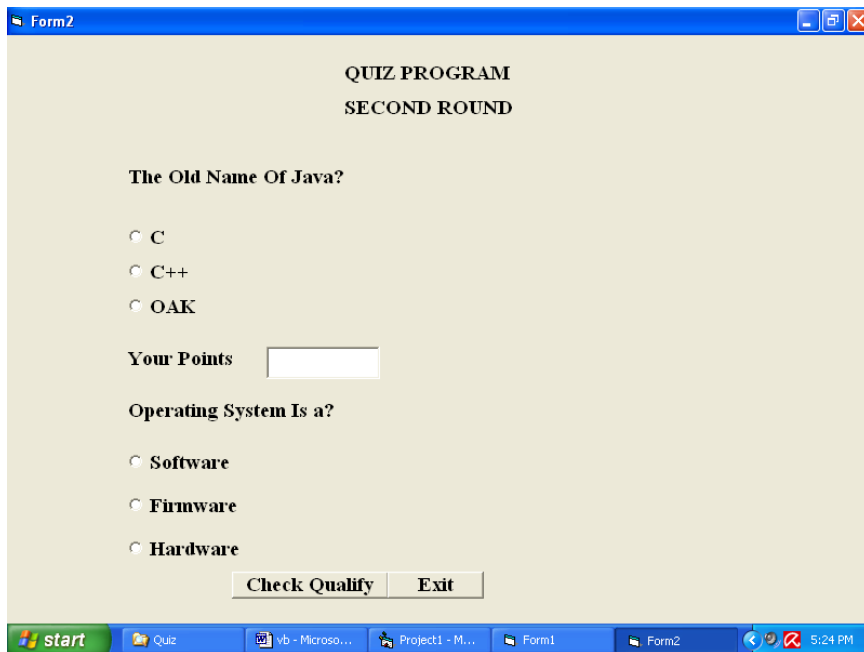
Your Points

Which Is Heart Of Computer?

Monitor
 CPU
 Mouse

Check Quality Exit

start Quiz vb - Microsoft Word Project1 - Microso... Form1 5:22 PM



Program

Form -1

```
Dim a As Integer
Private Sub Command1_Click()
    If a = 40 Then
        MsgBox ("You Are Selected For Second Round")
        Form2.Show
    Else
        MsgBox ("You Are Not Selected")
    End If
End Sub
Private Sub Command2_Click()
    End
End Sub
Private Sub Form_Load()
    MsgBox "Welcome You"
    MsgBox "All The Best"
    Option1.Value = False
    Option2.Value = False
    Option3.Value = False
    Option4.Value = False
    Option5.Value = False
    Option6.Value = False
    a = 20
End Sub
Private Sub Option1_Click()
    MsgBox "No Points"
    Option2.Value = False
    Option3.Value = False
End Sub
Private Sub Option2_Click()
    MsgBox "No Points"
    Option1.Value = False
    Option3.Value = False
```



```
End Sub
Private Sub Option3_Click()
MsgBox "20 Points!"
Option1.Value = False
Option2.Value = False
Text1.Text = Val(a)
MsgBox "Got Points" & a
End Sub
```

```
Private Sub Option4_Click()
MsgBox "No Points"
Option5.Value = False
Option6.Value = False
End Sub
```

```
Private Sub Option5_Click()
MsgBox "20 Points!"
Option4.Value = False
Option6.Value = False
a = Val(Text1.Text) + a
Text1.Text = (a)
MsgBox "Got Points" & a
End Sub
```

```
Private Sub Option6_Click()
MsgBox "No Points"
Option4.Value = False
Option5.Value = False
End Sub
```

Form - 2

```
Dim e As Integer
Private Sub Command1_Click()
If e = 80 Then
MsgBox "you Are Selected for Third Round"
Form3.Show
Else
MsgBox "You Are Not Selected"
```

```

End If
End Sub
Private Sub Command2_Click()
End
End Sub
Private Sub Form_Load()
Option1.Value = False
Option2.Value = False
Option3.Value = False
Option4.Value = False
Option5.Value = False
Option6.Value = False
a = Val(Form1.Text1.Text)
End Sub
Private Sub Option1_Click()
MsgBox "No Points"
Option1.Value = False
Option2.Value = False
End Sub
Private Sub Option2_Click()
MsgBox "No Points"
Option1.Value = False
Option3.Value = False
End Sub
Private Sub Option3_Click()
MsgBox "20 points!"
Option1.Value = False
Option2.Value = False
e = 40
e = e + 20
Text1.Text = e
MsgBox "Got Points" & e
End Sub

```

```
Private Sub Option4_Click()  
MsgBox "20 points!"  
Option4.Value = False  
Option5.Value = False  
e = Val(Text1.Text) + 20  
Text1.Text = e  
MsgBox "Got Points" & e  
End Sub
```

```
Private Sub Option5_Click()  
MsgBox "No Points"  
Option4.Value = False  
Option6.Value = False  
End Sub
```

```
Private Sub Option6_Click()  
MsgBox "No Points"  
Option4.Value = False  
Option5.Value = False  
End Sub
```

Form - 3

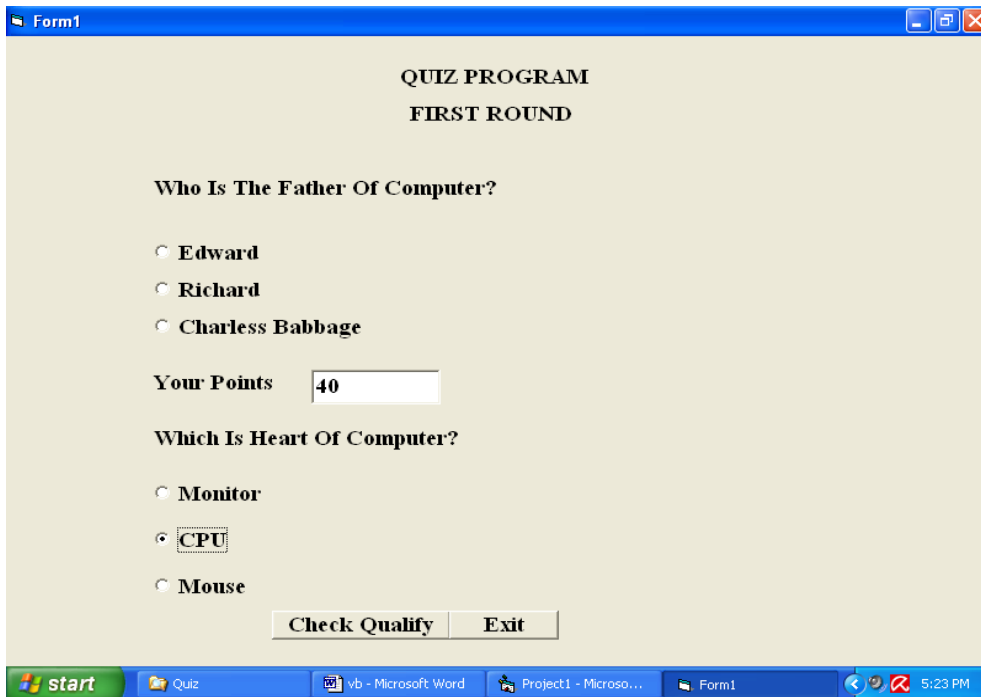
```
Dim g As Integer  
Private Sub Command1_Click()  
If g = 100 Then  
MsgBox "Congratulate You Won!Bye"  
Else  
MsgBox "U have not won"  
End If  
End Sub
```

```
Private Sub Command2_Click()  
End  
End Sub
```

```
Private Sub Form_Load()  
Option1.Value = False  
Option2.Value = False  
Option3.Value = False
```

```
g = Val(Form2.Text1.Text)
End Sub
Private Sub Option1_Click()
MsgBox "20 points!"
Option2.Value = False
Option3.Value = False
g = Val(Form2.Text1.Text) + 20
Text1.Text = g
MsgBox "Got Points" & g
End Sub
Private Sub Option2_Click()
MsgBox "No Points"
Option1.Value = False
Option2.Value = False
End Sub
Private Sub Option3_Click()
MsgBox "No Points"
Option1.Value = False
Option2.Value = False
End Sub
```

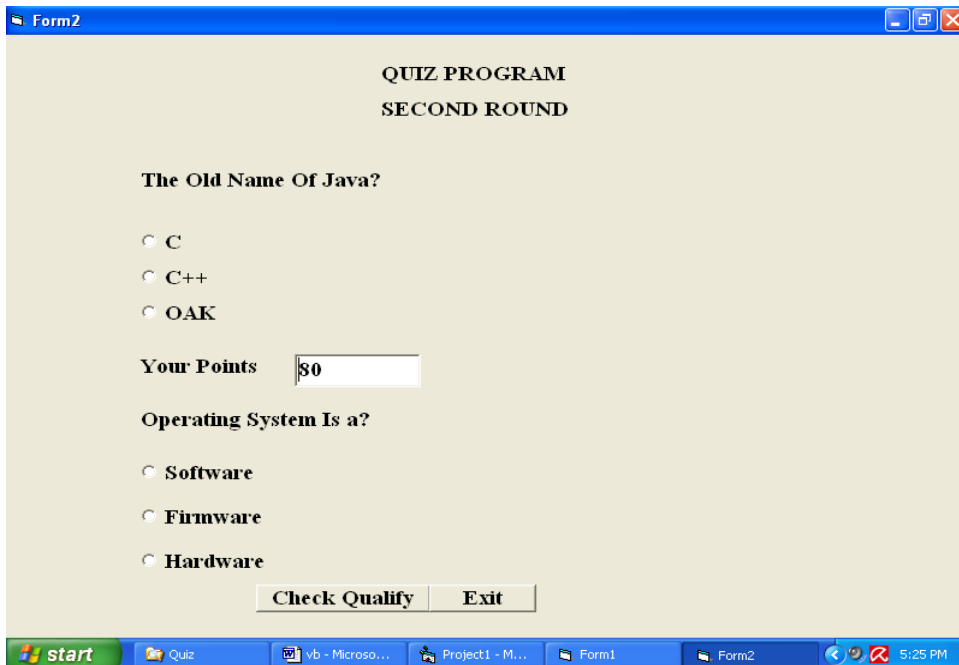
Output



The screenshot shows a Windows desktop environment. At the top, a window titled "Form1" is open, displaying a quiz program. The window has a blue title bar with standard Windows window controls (minimize, maximize, close). The main content area is light beige and contains the following text and elements:

- Centered text: **QUIZ PROGRAM** and **FIRST ROUND**
- Question: **Who Is The Father Of Computer?**
- Radio button options:
 - Edward
 - Richard
 - Charless Babbage
- Text: **Your Points** followed by a text input field containing the number **40**.
- Question: **Which Is Heart Of Computer?**
- Radio button options:
 - Monitor
 - CPU
 - Mouse
- Buttons: **Check Quality** and **Exit**

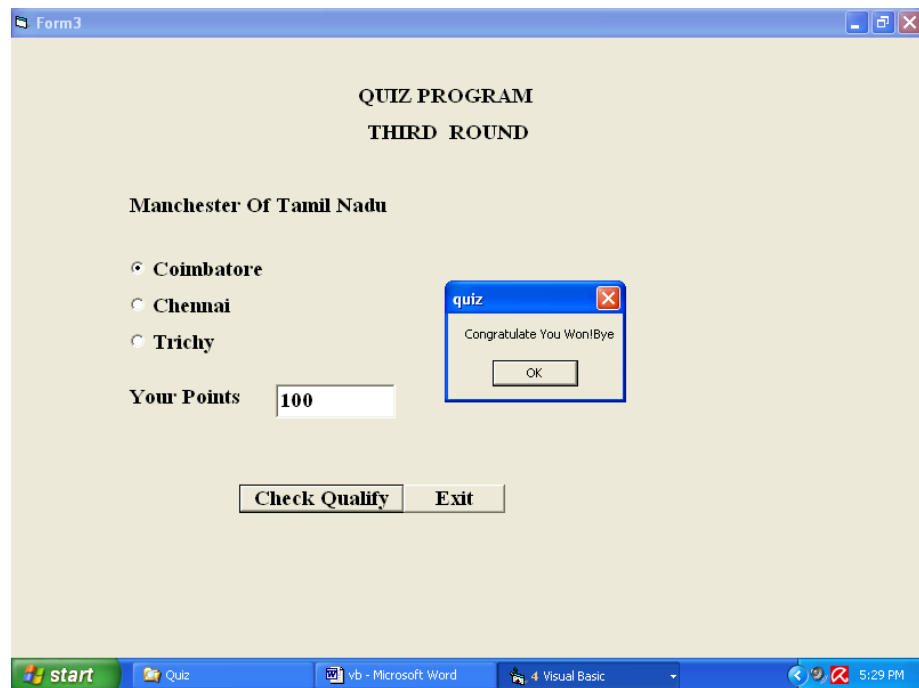
The Windows taskbar is visible at the bottom, showing the "start" button, several open applications (Quiz, vb - Microsoft Word, Project1 - Microso..., Form1), and the system tray with the time 5:23 PM.



The screenshot shows a Windows desktop environment. At the top, a window titled "Form2" is open, displaying a quiz program. The window has a blue title bar with standard Windows window controls (minimize, maximize, close). The main content area is light beige and contains the following text and elements:

- Centered text: **QUIZ PROGRAM** and **SECOND ROUND**
- Question: **The Old Name Of Java?**
- Radio button options:
 - C
 - C++
 - OAK
- Text: **Your Points** followed by a text input field containing the number **80**.
- Question: **Operating System Is a?**
- Radio button options:
 - Software
 - Firmware
 - Hardware
- Buttons: **Check Quality** and **Exit**

The Windows taskbar is visible at the bottom, showing the "start" button, several open applications (Quiz, vb - Microso..., Project1 - M..., Form1, Form2), and the system tray with the time 5:25 PM.



Program 5 : Railways Reservation System (Using Tables).

Aim :

Design a project for railway reservation.

Procedure :

Step 1: Open a new VB project.

Step 2 : Design a MDI form with Train-details, Reservation and Exit menu.

Step 3 : Design a Train-details form with required controls and set that's properties.

Step 4 : Design a Reservation form with required controls and set that's properties.

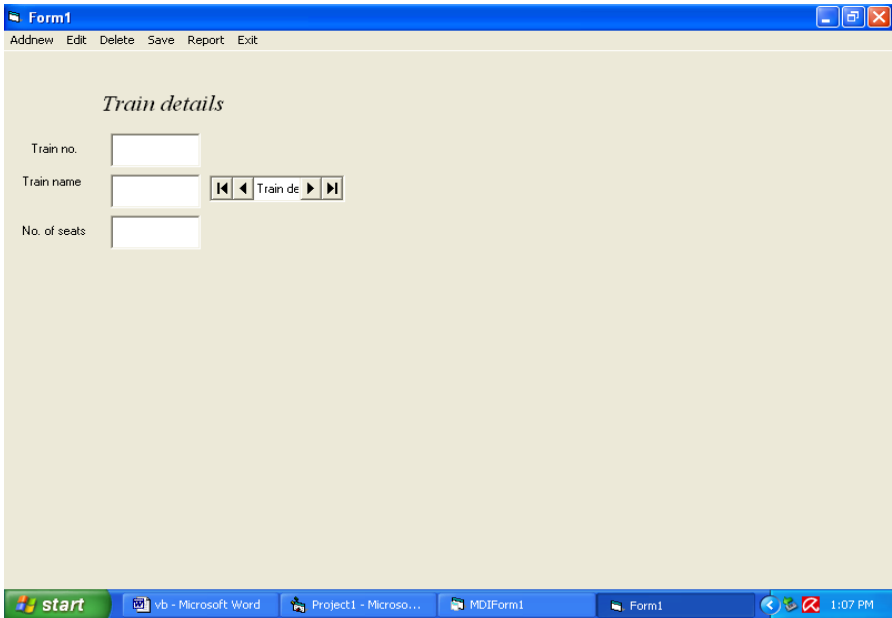
Step 5 : Design a database for maintaining passengers details.

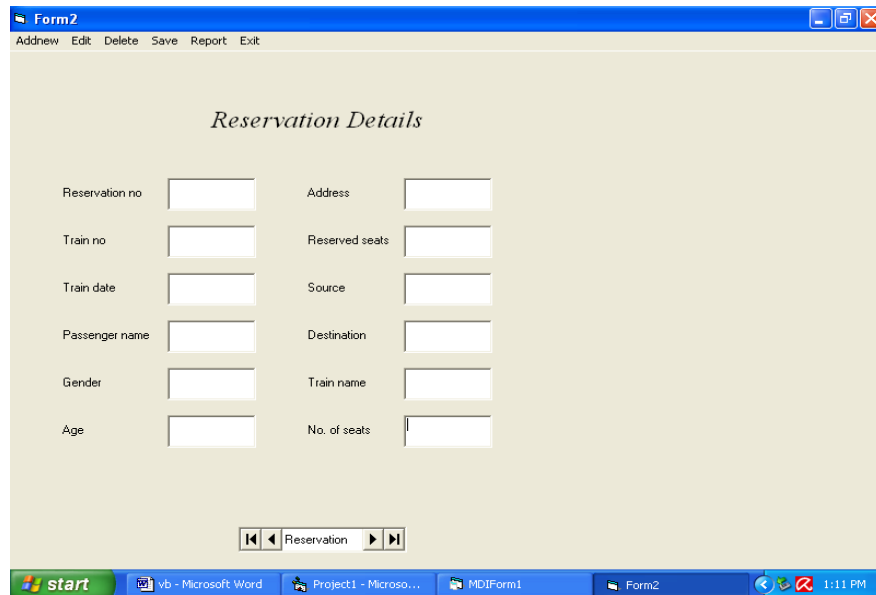
Step 6 : Connect the database to the form and display the details.

Step 7 : Using the events on controls do the necessary processes.

Step 8 : Display the information and data reports.

Form Design





Program

Railways Reservation System

```
Private Sub exit_Click()
```

```
End
```

```
End Sub
```

```
Private Sub MDIForm_Load()
```

```
Me.WindowState = 2
```

```
End Sub
```

```
Private Sub reser_Click()
```

```
Form2.Show
```

```
End Sub
```

```
Private Sub train_Click()
```

```
Form1.Show
```

```
End Sub
```

Form 1

```
Private Sub add_Click()
```

```
Text1.SetFocus
```

```
Data1.Recordset.AddNew
```

```
End Sub
```

```
Private Sub del_Click()
```



```

If MsgBox("Do you want to delete this record", vbYesNo, "confirmation") =
vbYes Then
Data1.Recordset.Delete
MsgBox ("Record deleted")
End If
End Sub
Private Sub edit_Click()
Data1.Recordset.edit
MsgBox ("Successfully Edited")
End Sub
Private Sub exit_Click()
End
End Sub
Private Sub report_Click()
DataReport1.Show
End Sub
Private Sub save_Click()
Data1.Recordset.Fields(0) = Text1.Text
Data1.Recordset.Fields(1) = Text2.Text
Data1.Recordset.Fields(2) = Text3.Text
Data1.Recordset.Update
MsgBox "Record saved"
End Sub
Form 2
Private Sub add_Click()
Data1.Recordset.AddNew
MsgBox "Ready to add"
End Sub
Private Sub del_Click()
Data1.Recordset.Delete
MsgBox "Record Deleted"
End Sub
Private Sub edit_Click()
Data1.Recordset.edit

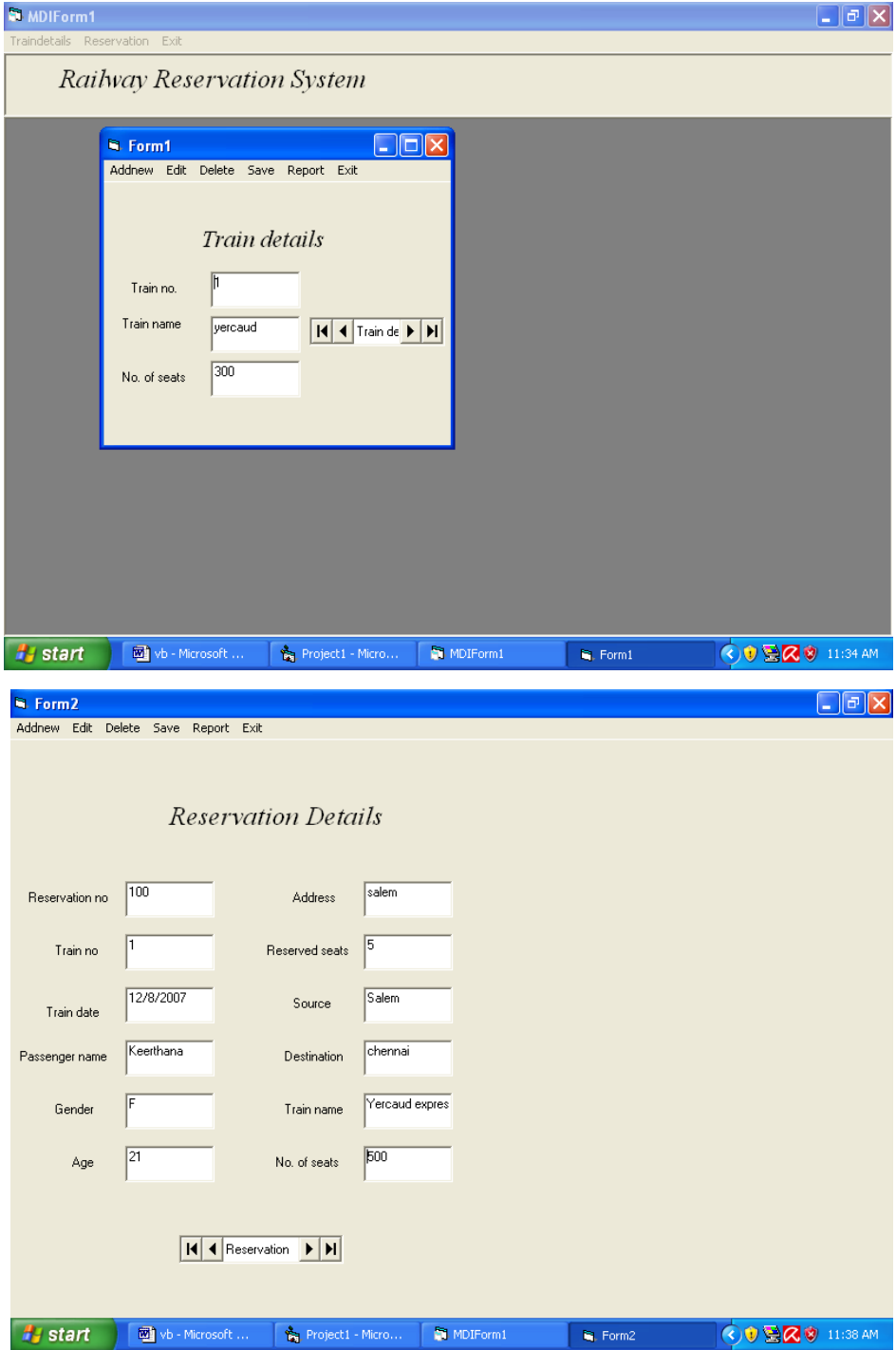
```

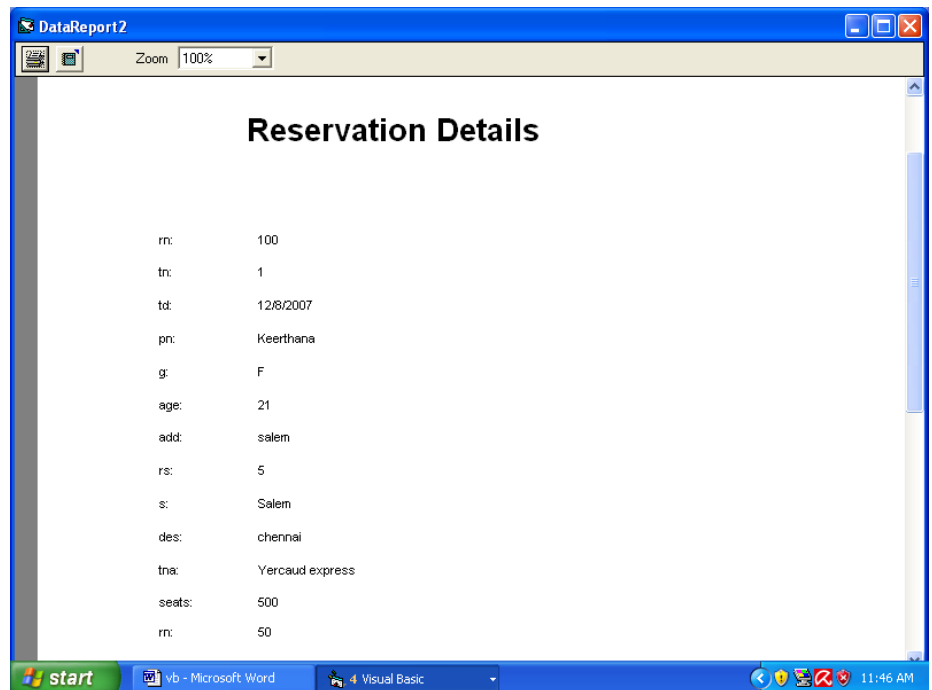
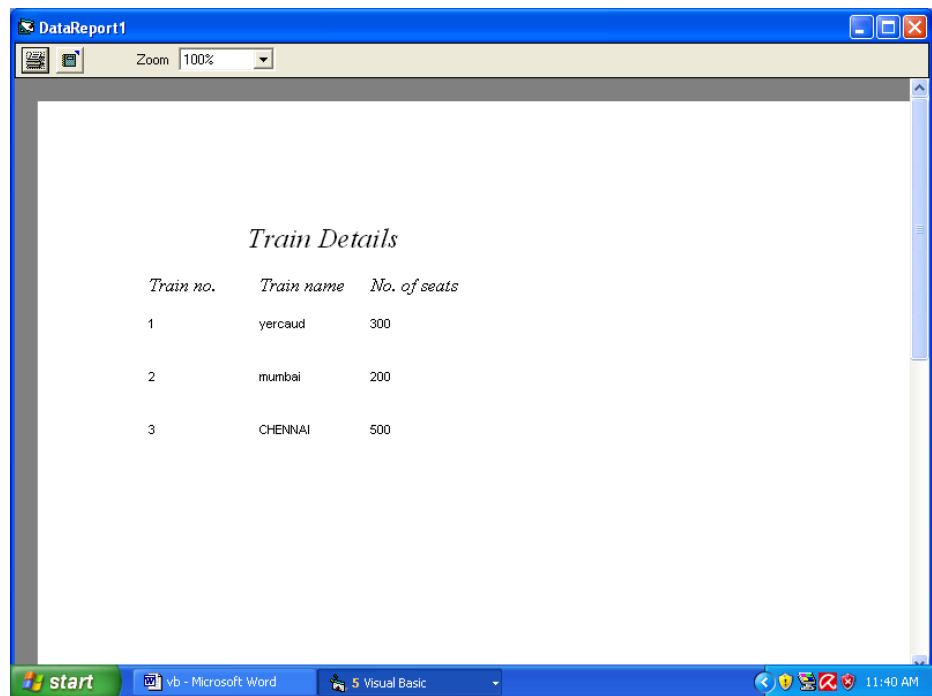
```

End Sub
Private Sub exit_Click()
End
End Sub
Private Sub Form_Load()
Me.WindowState = 2
End Sub
Private Sub report_Click()
DataReport2.Show
End Sub
Private Sub save_Click()
Data1.Recordset.Update
MsgBox "Record saved"
End Sub
Private Sub search_Click()
Dim a As String
a = InputBox("Enter the no.")
Data1.Recordset.FindFirst "no=" & a & " "
Text1.Text = Data1.Recordset.Fields(0)
Text2.Text = Data1.Recordset.Fields(1)
Text3.Text = Data1.Recordset.Fields(2)
Text4.Text = Data1.Recordset.Fields(3)
Text5.Text = Data1.Recordset.Fields(4)
Text6.Text = Data1.Recordset.Fields(5)
Text7.Text = Data1.Recordset.Fields(6)
Text8.Text = Data1.Recordset.Fields(7)
Text9.Text = Data1.Recordset.Fields(8)
Text10.Text = Data1.Recordset.Fields(9)
Text11.Text = Data1.Recordset.Fields(10)
Text12.Text = Data1.Recordset.Fields(11)
End Sub

```

Output





Program 6 : Voters Information System (Using Tables).

Aim :

Design a project for maintaining voters information.

Procedure :

Step 1: Open a new VB project.

Step 2 : Design a form with required controls.

Step 3 : Design a database for maintaining voters details.

Step 4 : Connect the database to the form and display the details.

Step 5 : Using the events on controls do the necessary processes.

Step 6 : Display the votes information and data reports.

Form Design

The screenshot shows a Windows application window titled "Voter's Information System". The window contains a form with the following fields and buttons:

- Voter's ID:
- Voter's Name:
- Address:
- Father's Name:
- Gender:
- Age:
- Ward no:
- Marital status:

Buttons on the right side of the form:

- Addnew
- Delete
- Edit
- Update
- Clear
- Exit
- Report

Navigation controls at the bottom of the form:

- Four arrows: <<, <, >, >>
- Four arrows: <<<, <<, >>, >>>

The Windows taskbar at the bottom shows the Start button and several open applications: vb - Microsoft Word, Project1 - Microsoft V..., and Voter's Information. The system clock shows 1:14 PM.

Voter's information system

```
Private Sub Addnew_Click()
```

```
Text1.SetFocus
```

```
Data1.Recordset.Addnew
```

```
End Sub
```

```
Private Sub Clear_Click()
```

```
Text1.Text = " "
```

```
Text2.Text = " "
```

```
Text3.Text = " "
```

```
Text4.Text = " "
```

```
Text5.Text = " "
```

```
Text6.Text = " "
```

```
Text7.Text = " "
```

```
Text8.Text = " "
```

```

End Sub
Private Sub Delete_Click()
Data1.Recordset.Delete
MsgBox "Record deleted"
End Sub
Private Sub Edit_Click()
Data1.Recordset.Edit
End Sub
Private Sub Exit_Click()
End
End Sub
Private Sub First_Click()
Data1.Recordset.MoveFirst
End Sub
Private Sub Form_Load()
Me.WindowState = 2
End Sub
Private Sub Last_Click()
Data1.Recordset.MoveLast
End Sub
Private Sub Next_Click()
Data1.Recordset.MoveNext
End Sub
Private Sub Previous_Click()
Data1.Recordset.MovePrevious
End Sub
Private Sub Report_Click()
DataReport1.Show
End Sub
Private Sub Text6_LostFocus()
If Val(Text6.Text) >= 18 Then
MsgBox "Eligible for vote"
Else
MsgBox "Not eligible for vote"

```

End If

End Sub

Private Sub Update_Click()

Data1.Recordset.Update

MsgBox "Record saved"

End Sub

Voter's Information System

Voter's ID: 100 Addnew

Voter's Name: Keerthana Delete

Address: gorimedu Edit

Father's Name: shanmugam Update

Gender: Female Clear

Age: 21 Exit

Ward no: 1 Report

Marital status: Unmarried << < > >>

<< < > >>

DataReport1

Zoom 100%

Id: 100
Name: Keerthana
add: gorimedu
Fa_name: shanmugam
gen: Female
age: 21
no: 1
M_sta: Unmarried

Id: 123
Name: Padma
add: Vembadithalam
Fa_name: Gopal
gen: Female
age: 20
no: 2

Program 7 : Library Information System (Using Tables).

Aim :

Design a project for maintaining library process such as issue and return.

Procedure :

Step 1: Open a new VB project.

Step 2 : Design MDI form with Book-Information, Book-Issue-Return, Student-detail and Exit menu.

Step 3 : Design Book-Information form with required controls and set that's properties.

Step 4 : Design Book-Issue-Return form with required controls and set that's properties.

Step 5 : Design Student-Details form with required controls and set that's properties.

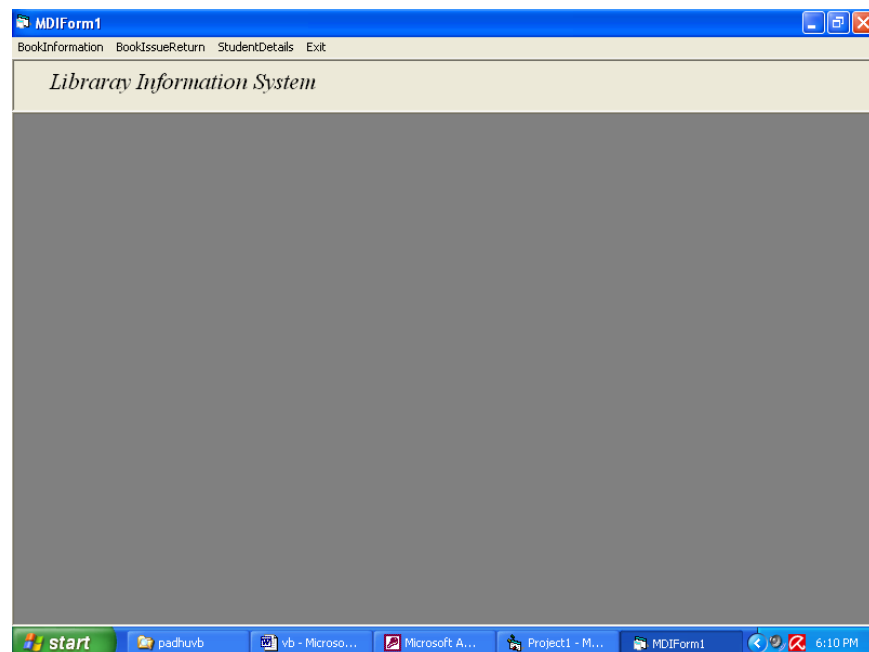
Step 6 : Design a database for maintaining Library process.

Step 7 : Connect the database to the form and display the details.

Step 8 : Using the events on controls do the necessary processes.

Step 9 : Display the Book and Student details and data reports.

Form Design



Form1

Addnew Delete Save Report Exit

Book Information

Access no.

Book Name >> >|

Subject

Author <<| Book ir >|>>

Publisher

Book no.

start padhuvb vb - Microsoft Word Microsoft Access 3 Visual Basic 6:11 PM

Form3

Addnew Delete Save Report Exit

Student Details

Reg no k <<

Branch

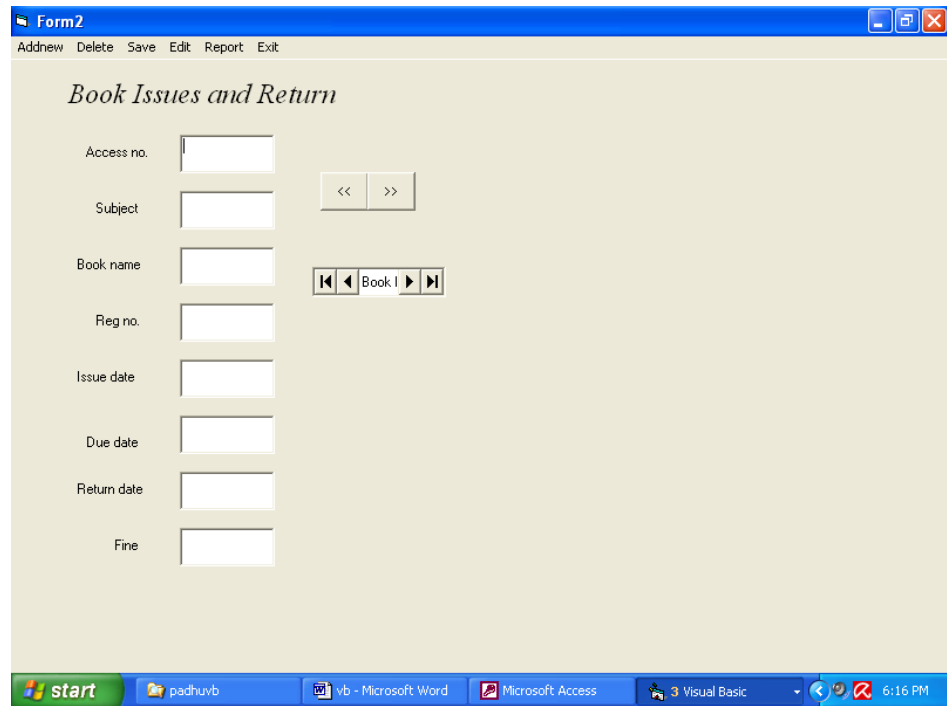
Name

Address <<| Student de >|>>

City

State

start padhuvb vb - Microsoft Word Microsoft Access 4 Visual Basic 6:18 PM



Program

Library Information System

```
Private Sub b_infor_Click()  
Form1.Show  
End Sub  
Private Sub b_Issue_Click()  
Form2.Show  
End Sub  
Private Sub exit_Click()  
End  
End Sub  
Private Sub MDIForm_Click()  
Me.WindowState = 2  
End Sub  
Private Sub S_Details_Click()  
Form3.Show  
End Sub
```

Form 1

```
Private Sub add_Click()  
Data1.Recordset.AddNew  
End Sub  
Private Sub Command1_Click()  
Form2.Show  
End Sub  
Private Sub Command2_Click()  
Form3.Show  
End Sub  
Private Sub del_Click()  
Data1.Recordset.Delete  
MsgBox "Record deleted"  
End Sub  
Private Sub exit_Click()  
End  
End Sub  
Private Sub Form_Load()  
Me.WindowState = 2  
End Sub  
Private Sub report_Click()  
DataReport1.Show  
End Sub  
Private Sub save_Click()  
Data1.Recordset.Update  
MsgBox "Record saved"  
End Sub
```

Form2

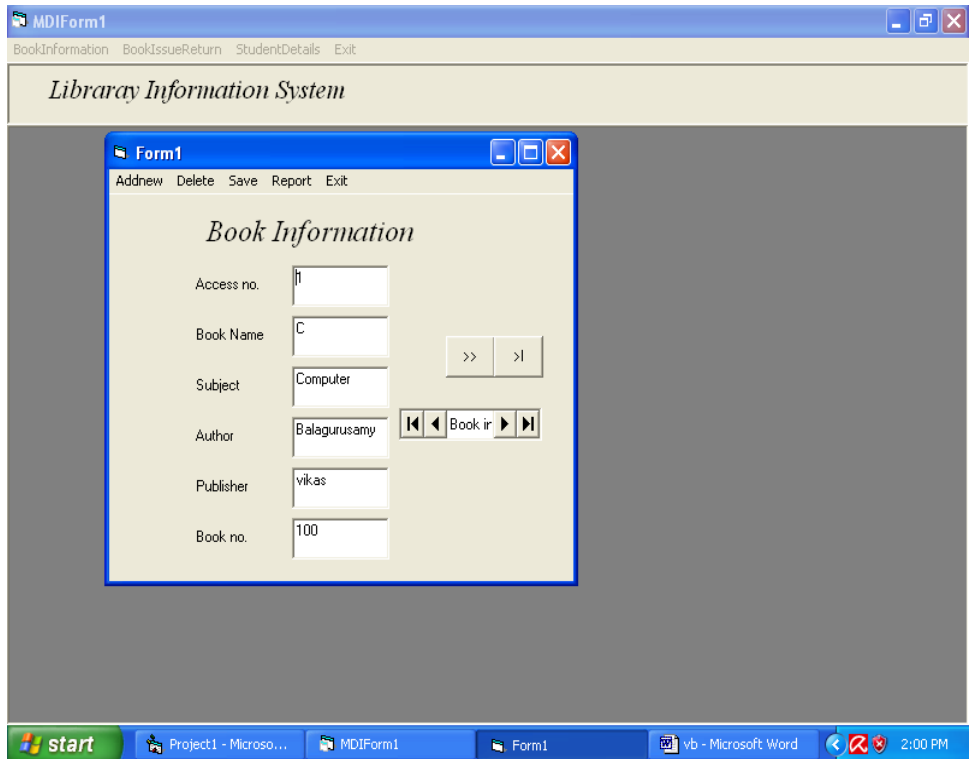
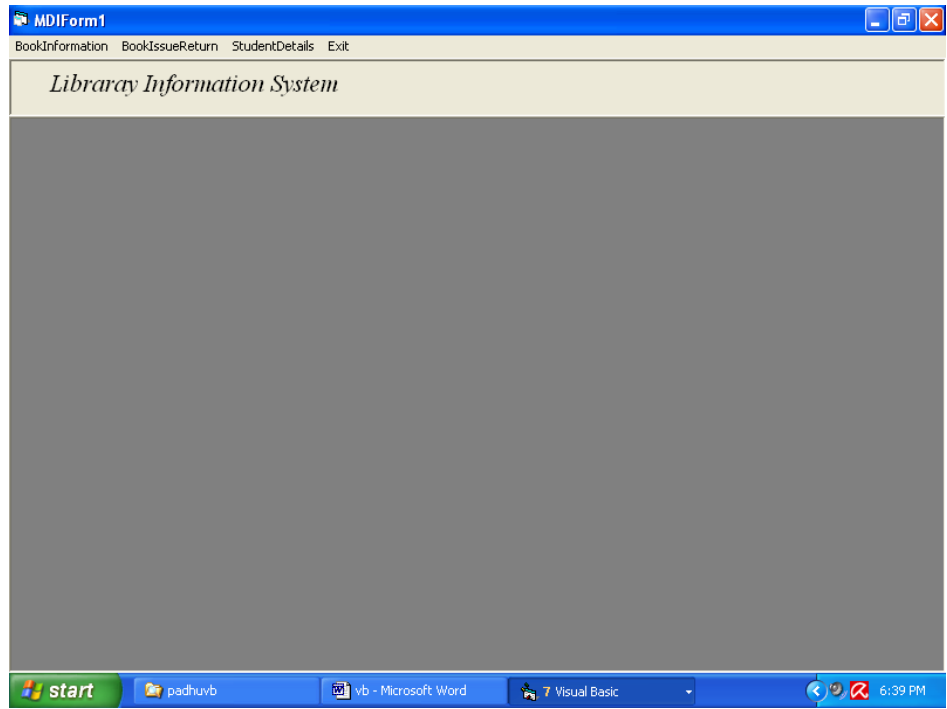
```
Private Sub add_Click()  
Data1.Recordset.AddNew  
End Sub  
Private Sub Command1_Click()  
Form1.Show  
End Sub
```

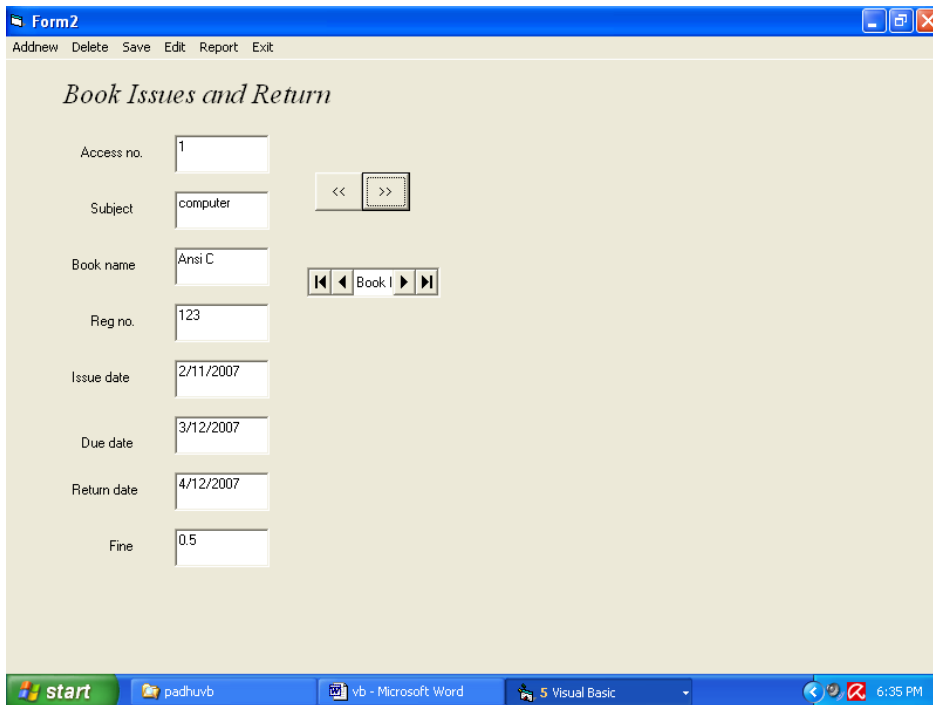
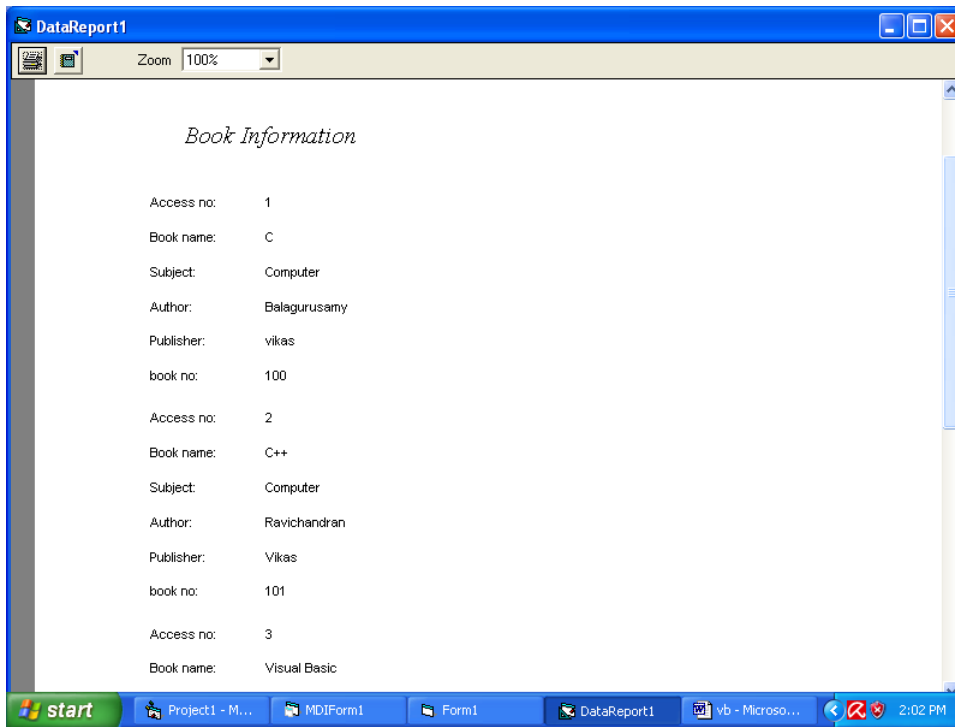
```

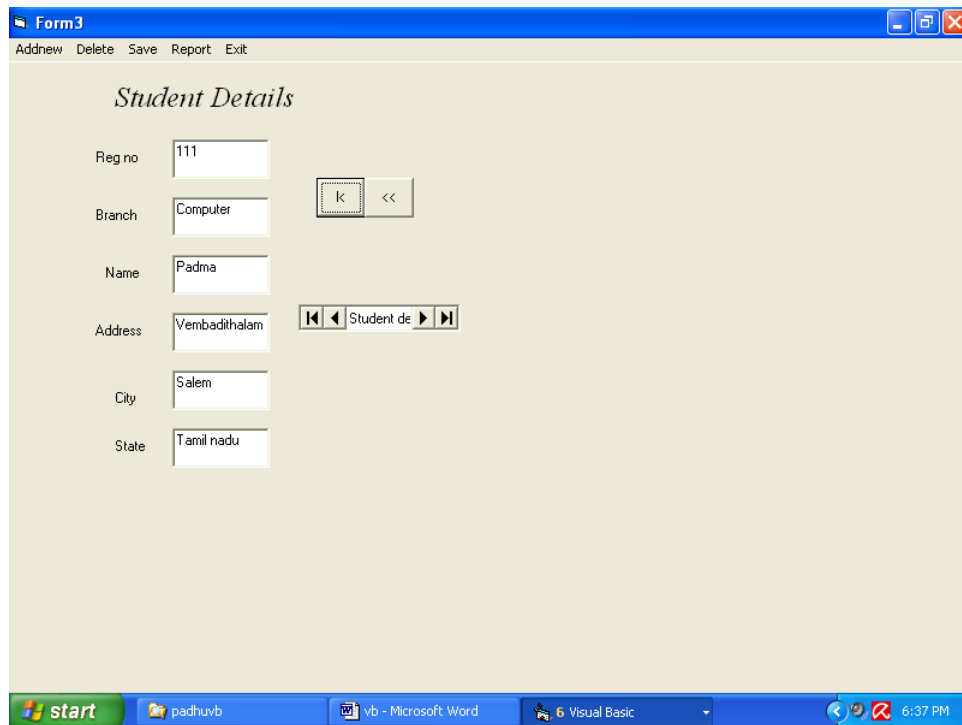
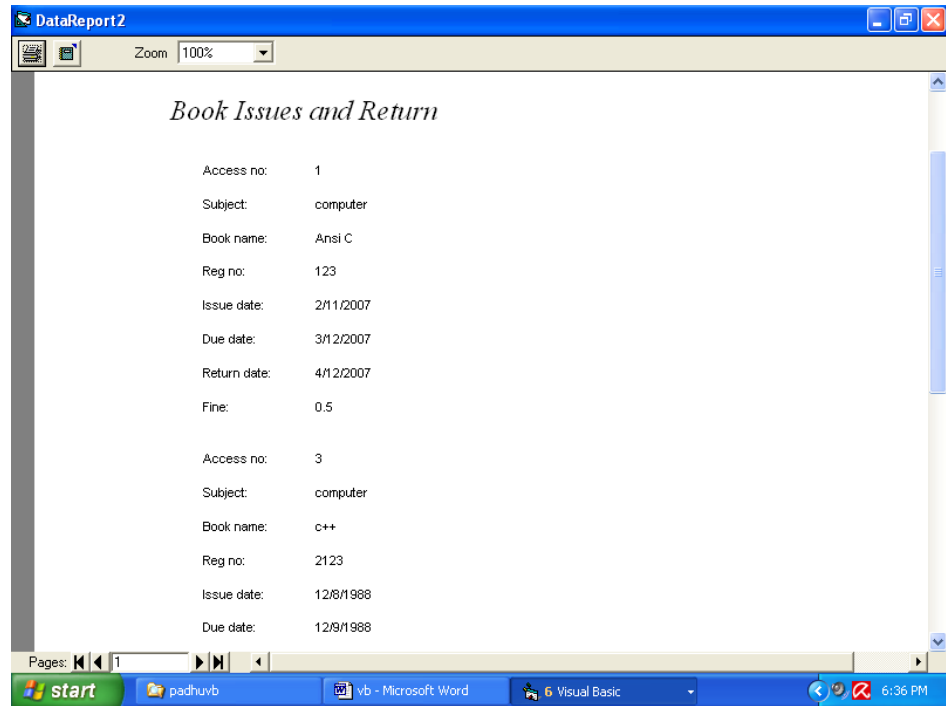
Private Sub Command2_Click()
Form3.Show
End Sub
Private Sub del_Click()
Data1.Recordset.Delete
MsgBox "Record deleted"
End Sub
Private Sub edit_Click()
Data1.Recordset.edit
End Sub
Private Sub exit_Click()
End
End Sub
Private Sub Form_Load()
Me.WindowState = 2
End Sub
Private Sub report_Click()
DataReport2.Show
End Sub
Private Sub save_Click()
Data1.Recordset.Update
MsgBox "Record saved"
End Sub
Private Sub Text7_LostFocus()
Dim d As Variant
d = Val(Text7.Text) - Val(Text6.Text)
If d > 0 Then
Text8.Text = d * 0.5
MsgBox (d & " Days passed")
End If
End Sub
Form 3
Private Sub add_Click()
Data1.Recordset.AddNew

```

```
End Sub
Private Sub Command1_Click()
Form1.Show
End Sub
Private Sub Command2_Click()
Form2.Show
End Sub
Private Sub del_Click()
Data1.Recordset.Delete
MsgBox "Record deleted"
End Sub
Private Sub exit_Click()
End
End Sub
Private Sub Form_Load()
Me.WindowState = 2
End Sub
Private Sub report_Click()
DataReport3.Show
End Sub
Private Sub save_Click()
Data1.Recordset.Update
MsgBox "Record saved"
End Sub
```







The screenshot shows a window titled "DataReport3" with a zoom level of 100%. The report content is titled "Student details" and lists two student records. The first record has Reg no: 111, Branch: Computer, Name: Padma, Address: Vembadithalam, City: Salem, and State: Tamil nadu. The second record has Reg no: 222, Branch: Computer, Name: Sumathi, Address: Attayampatti, City: Salem, and State: Tamil nadu. The window includes a page navigation bar at the bottom and a Windows taskbar with the start button and open applications: padhuvb, vb - Microsoft Word, and 7 Visual Basic. The system clock shows 6:38 PM.

Student details	
Reg no:	111
Branch:	Computer
Name:	Padma
Address:	Vembadithalam
City:	Salem
State:	Tamil nadu
Reg no:	222
Branch:	Computer
Name:	Sumathi
Address:	Attayampatti
City:	Salem
State:	Tamil nadu

