

SPCA 212/SPIT105

POSTGRADUATE COURSE

**MASTER OF COMPUTER APPLICATIONS/
M.Sc. INFORMATION TECHNOLOGY**

SECOND YEAR / FIRST YEAR

IV - SEMESTER / I - SEMESTER

CORE PAPER - XXI / CORE PAPER - V

**PRACTICAL - VII: RDBMS LAB /
PRACTICAL - II: RDBMS LAB**



**INSTITUTE OF DISTANCE EDUCATION
UNIVERSITY OF MADRAS**

MCA/M.Sc., (IT)
SECOND YEAR / IV SEMESTER
FIRST YEAR / I SEMESTER

PRACTICAL - VII RDBMS LAB/
PRACTICAL - II RDBMS LAB

WELCOME

Warm Greetings.

It is with a great pleasure to welcome you as a student of Institute of Distance Education, University of Madras. It is a proud moment for the Institute of Distance education as you are entering into a cafeteria system of learning process as envisaged by the University Grants Commission. Yes, we have framed and introduced Choice Based Credit System(CBCS) in Semester pattern from the academic year 2018-19. You are free to choose courses, as per the Regulations, to attain the target of total number of credits set for each course and also each degree programme. What is a credit? To earn one credit in a semester you have to spend 30 hours of learning process. Each course has a weightage in terms of credits. Credits are assigned by taking into account of its level of subject content. For instance, if one particular course or paper has 4 credits then you have to spend 120 hours of self-learning in a semester. You are advised to plan the strategy to devote hours of self-study in the learning process. You will be assessed periodically by means of tests, assignments and quizzes either in class room or laboratory or field work. In the case of PG (UG), Continuous Internal Assessment for 20(25) percentage and End Semester University Examination for 80 (75) percentage of the maximum score for a course / paper. The theory paper in the end semester examination will bring out your various skills: namely basic knowledge about subject, memory recall, application, analysis, comprehension and descriptive writing. We will always have in mind while training you in conducting experiments, analyzing the performance during laboratory work, and observing the outcomes to bring out the truth from the experiment, and we measure these skills in the end semester examination. You will be guided by well experienced faculty.

I invite you to join the CBCS in Semester System to gain rich knowledge leisurely at your will and wish. Choose the right courses at right times so as to erect your flag of success. We always encourage and enlighten to excel and empower. We are the cross bearers to make you a torch bearer to have a bright future.

With best wishes from mind and heart,

DIRECTOR

MCA/M.Sc., (IT)
SECOND YEAR / IV SEMESTER
FIRST YEAR / I SEMESTER

PRACTICAL - VII RDBMS LAB/
PRACTICAL - II RDBMS LAB

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SYLLABUS

Students are advised to use the concepts like Data Normalization, Link between table by means of foreign keys and other relevant data base concepts for developing databases for the following problems. The implementation of each problem should have necessary input screen Menu-driven query processing and pleasing reports. The choice of RDBMS is left to the students. Necessary validations must be done after developing database.

1. Building Simple Applications.
2. Working with Intrinsic Controls and ActiveX Controls.
3. Application with multiple forms.
4. Application with Dialogs.
5. Application with Menus.
6. Application using Data Controls.
7. Application using Common Dialogs.
8. Drag and Drop Events.
9. Database Management.
10. Creating ActiveX Controls
11. Library Management System
12. Students Marksheets Processing
13. Bank Transactions.
14. Personal information system
15. Question Database and conducting Quiz.

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PRACTICAL - VII: RDBMS LAB /
PRACTICAL - II: RDBMS LAB

SCHEME OF LESSONS

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4	Bank Transactions (SB)	57
5	Inventory System	70
6	Purchase Order Processing	74
7	Pay Roll Processing	82
8	Question Database and Conducting Quiz	96
9	Library Information Processing	110
10	Telephone Directory Maintenance	130

**INSTITUTE OF DISTANCE EDUCATION
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CHENNAI - 600 005

RECORD OF PRACTICALS



MCA / M.Sc., (I.T.)

20____ - 20____

Practical - VII / Practical - II

RDBMS LAB

NAME : _____

ENROLMENT NUMBER : _____

GROUP NO. : _____

**UNIVERSITY OF MADRAS
CHENNAI - 600 005**

INSTITUTE OF DISTANCE EDUCATION

UNIVERSITY OF MADRAS

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Certified that this is the Bonafide Record of work done by _____

with Enrolment Number _____ of First Year MCA / M.Sc., (IT) Degree

Course in the Institute of Distance Education, University of Madras during the year

_____ in respect of **RDBMS LAB**

Date:

Co-ordinator

Submitted for First Year MCA / M.Sc., (IT) Degree Course Practical Examination held
on _____ at IDE, University of Madras.

Date:

Examiners

1. **Name:**

Signature:

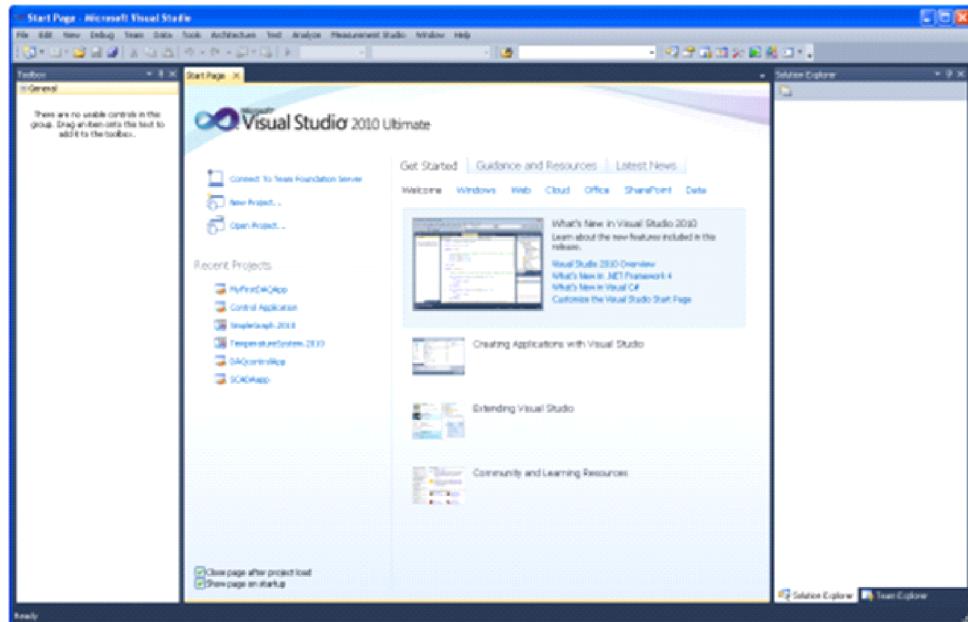
2. **Name:**

Signature:

INTRODUCTION

Getting started to visual studio 2010

The Visual Studio product family shares a single integrated development environment (IDE) that is composed of several elements: the Menu barStandard toolbar, various tool windows docked or auto-hidden on the left, bottom, and right sides, as well as the editor space. The tool windows, menus, and toolbars available depend on the type of project or file you are working in. Below we see the Visual Studio IDE (Integrated Development Environment):



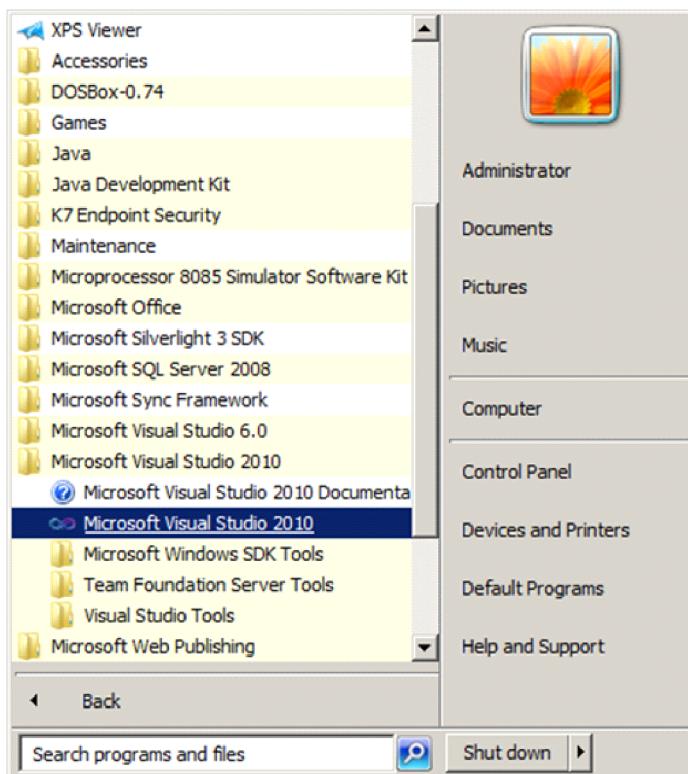
Logon to visual studio 2010 in windows 2007 OS

Step1 → Start → All programs → select the **Microsoft Visual Studio 2010**

Or

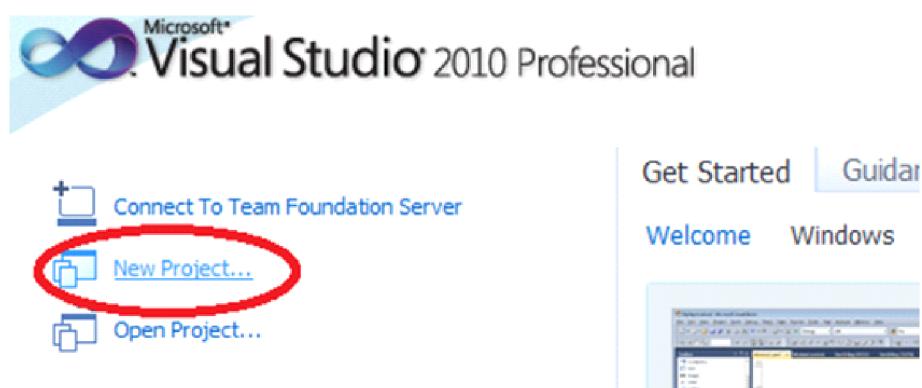
Logon to visual studio 2010 in windows 2010 OS

Start → “ask me anything” option and type “**Microsoft Visual Studio 2010**”



New Project

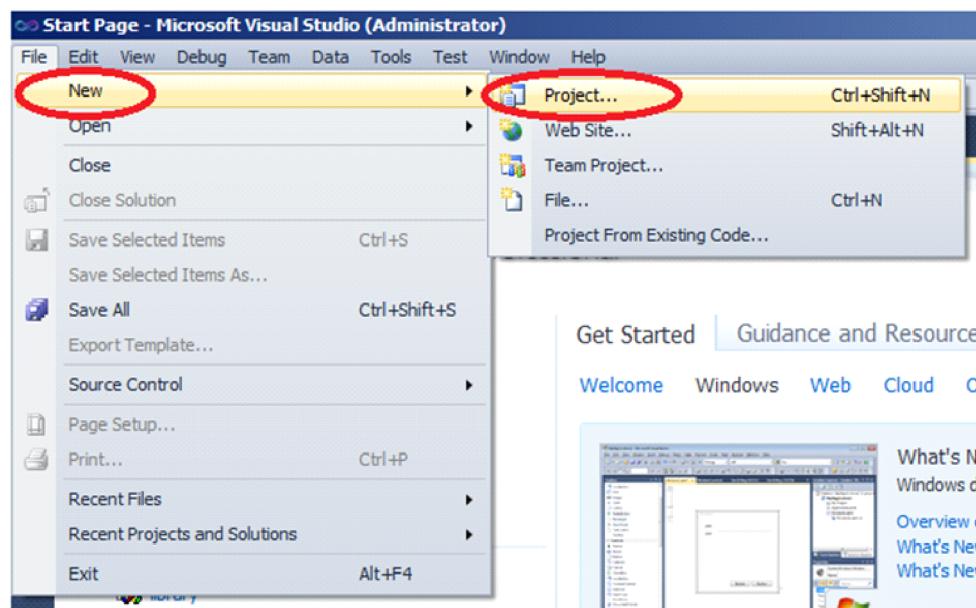
The first thing you do when you want to create a new application is to create a new project.
This can be done from the Start Page:



Or from the **file** Menu

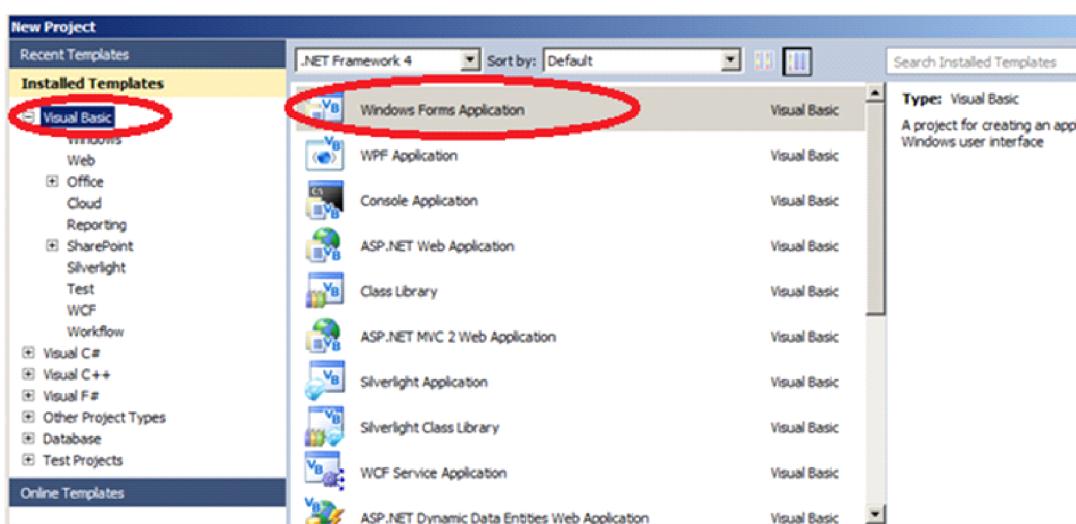
New → project

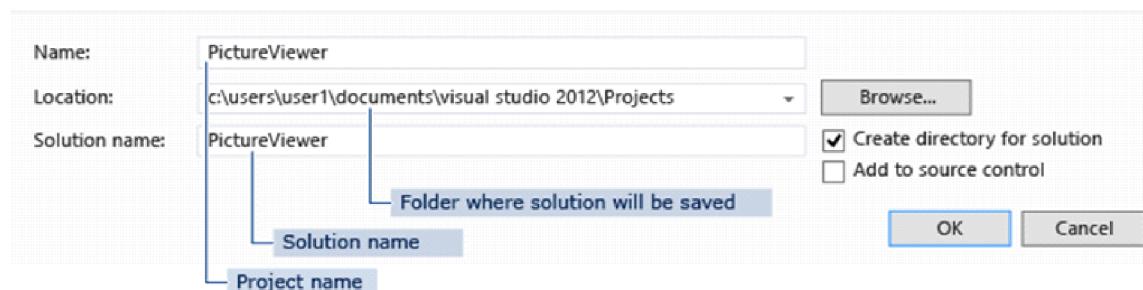
If you want shortcut option in keyboard → CTRL+SHIFT+N and appeared one dialog box



Step 2:

The New Project dialog box opens, as shown on the following page





The New Project dialog box provides access to the major project types available for writing Windows and Web applications.

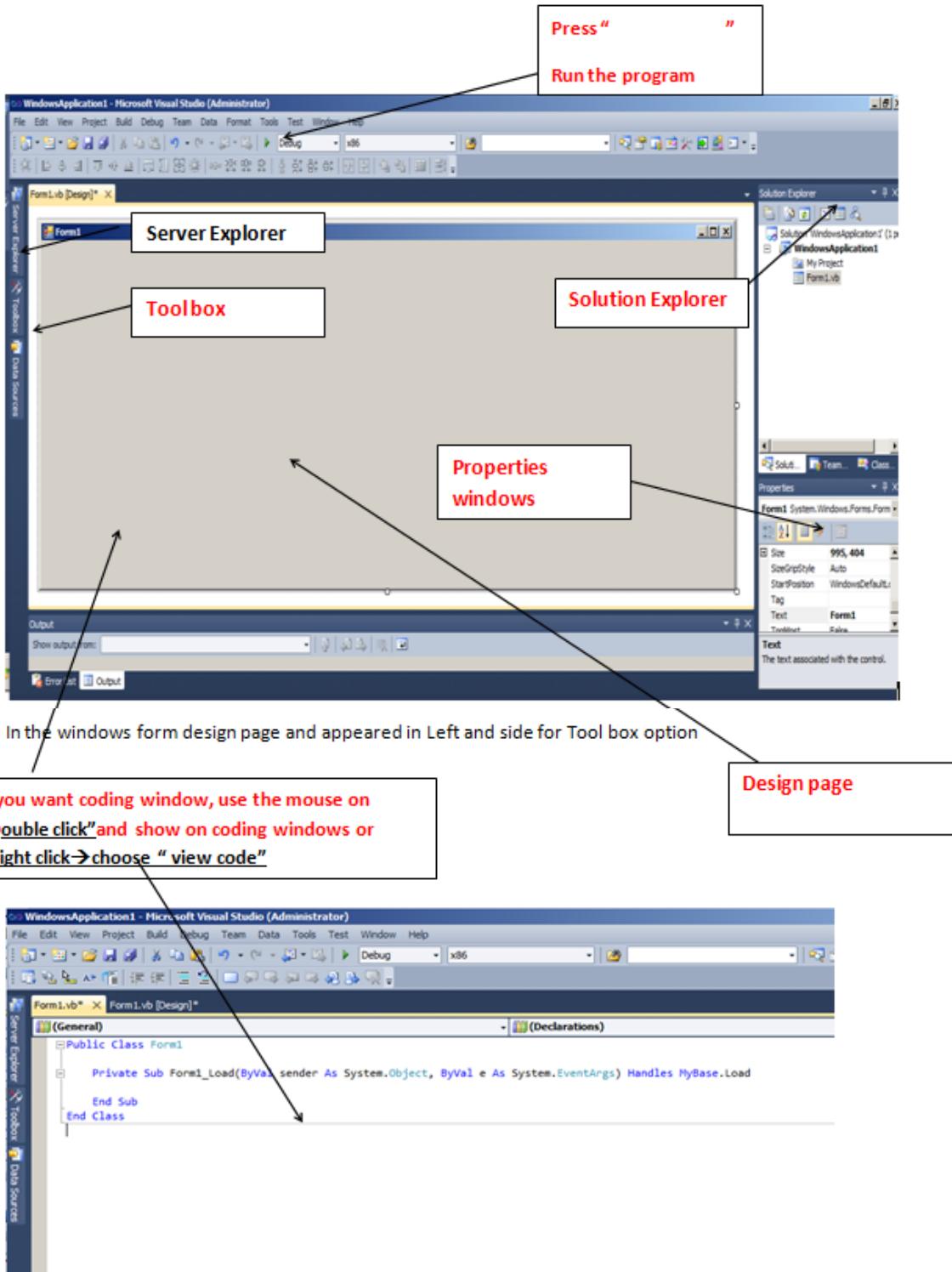
Click the Windows Forms Application icon in the central Templates area of the dialog box.

Visual Studio prepares the development environment for Visual Basic Windows application programming.

Visual basic → and choose → Windows forms Application

In the Name text box, type **first program**

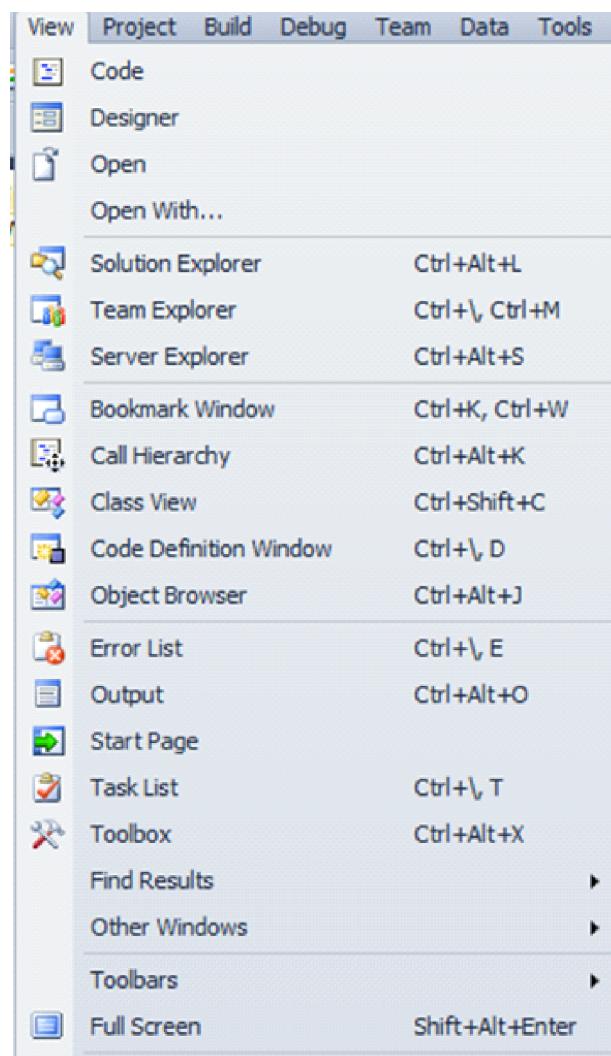
Click OK to create the new project in Visual Studio.



The Important of short keys are followed using in the keyboard.

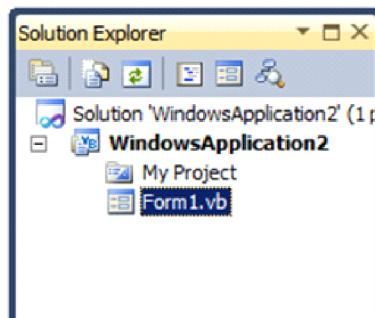
Tool box	→	CTRL+ALT+X
Solution Explorer	→	CTRL+ALT+L
Properties windows	→	F4 (Function key)
Run the program	→	F5

If you want mouse options, you go to the menu bar and select theà view option.



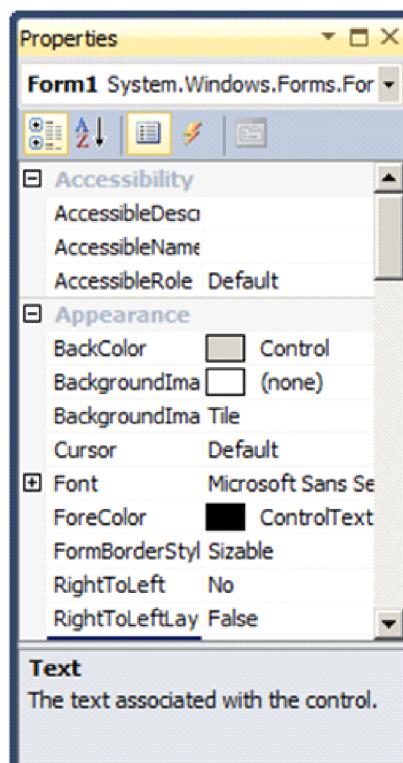
Solution Explorer

Solutions and projects contain items that represent the references, data connections, folders, and files that you need to create your application. A solution container can contain multiple projects and a project container typically contains multiple items.



Properties window

Each control we have on our user interface has lots of Properties we can set. This is done in the Properties window:

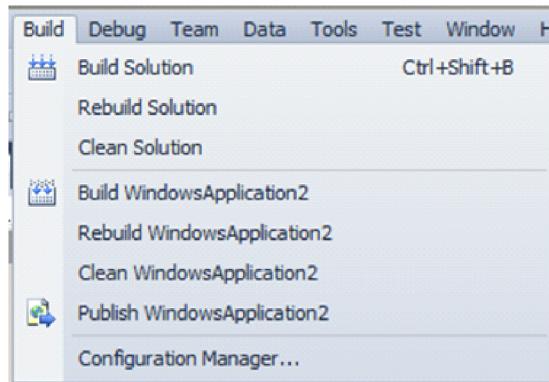


Build and Debug Tools

In Visual Studio we have lots of Build and Debugging Tools.

Buildmenu:

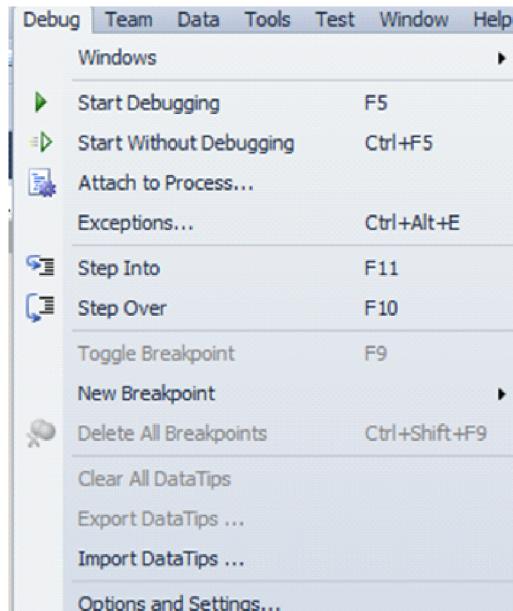
Below we see the **Build** menu:



The most used tool is “**BuildSolution**” (Shortcut Key: F6).

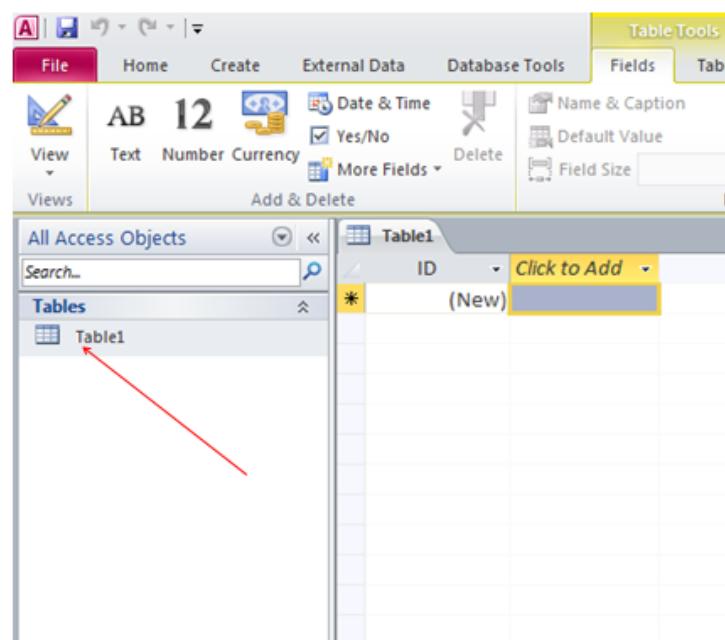
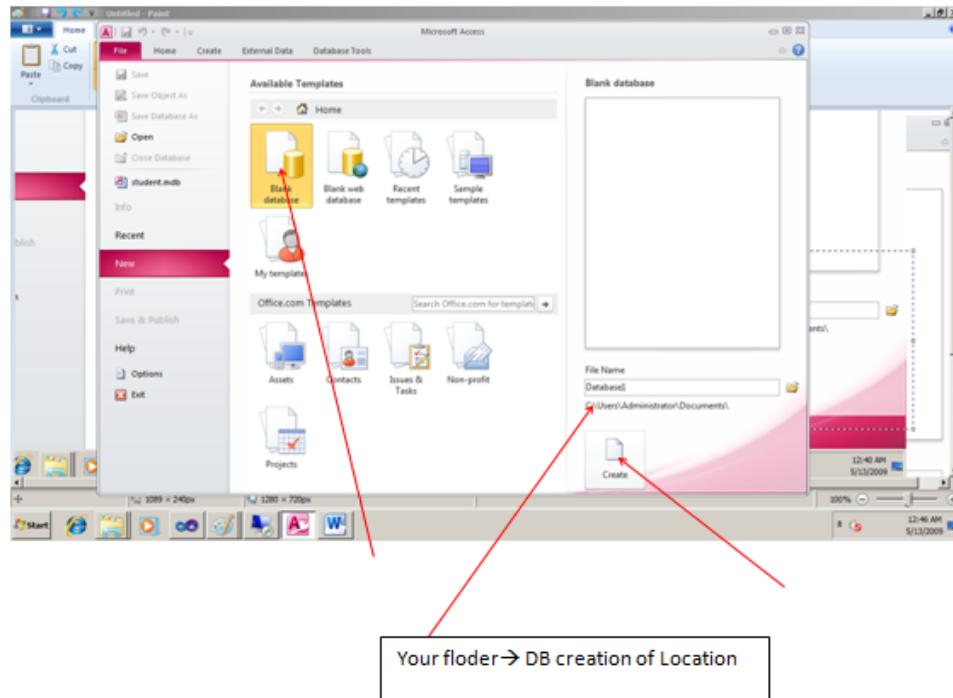
Debug menu:

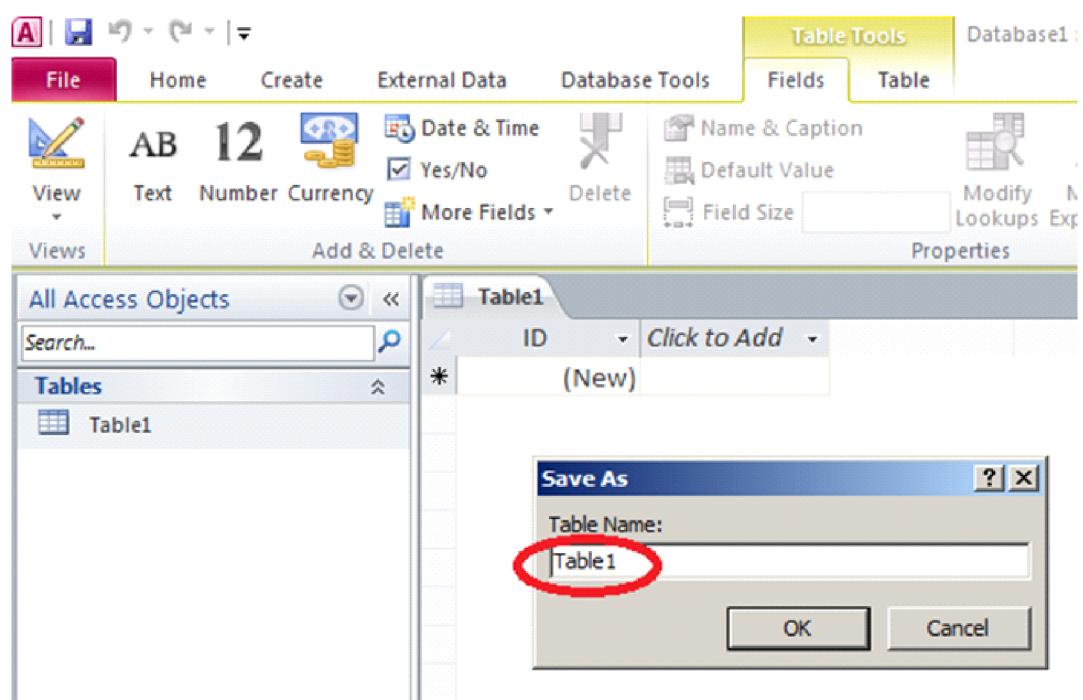
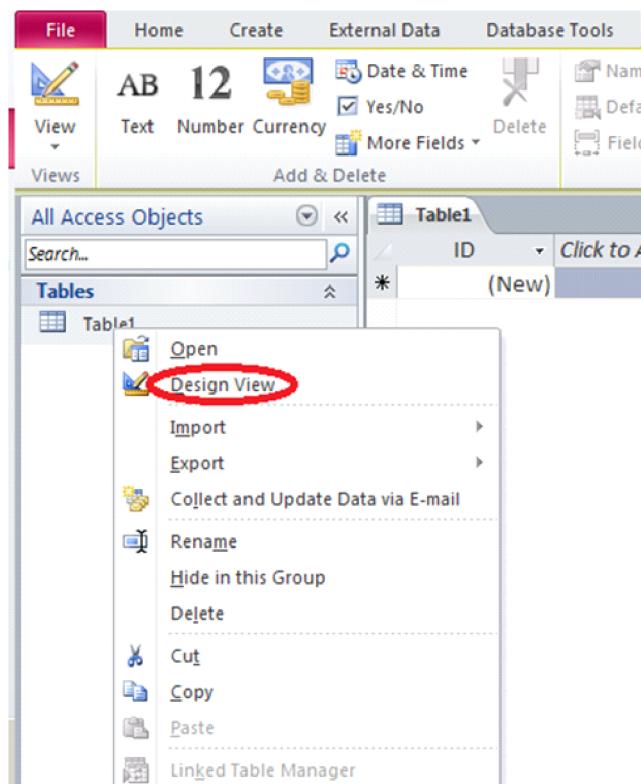
Below we see the **Debug** menu:

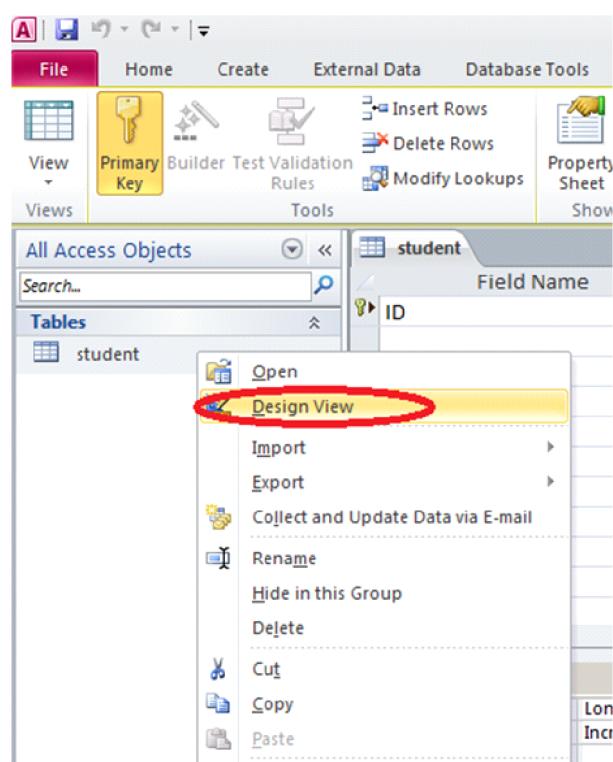
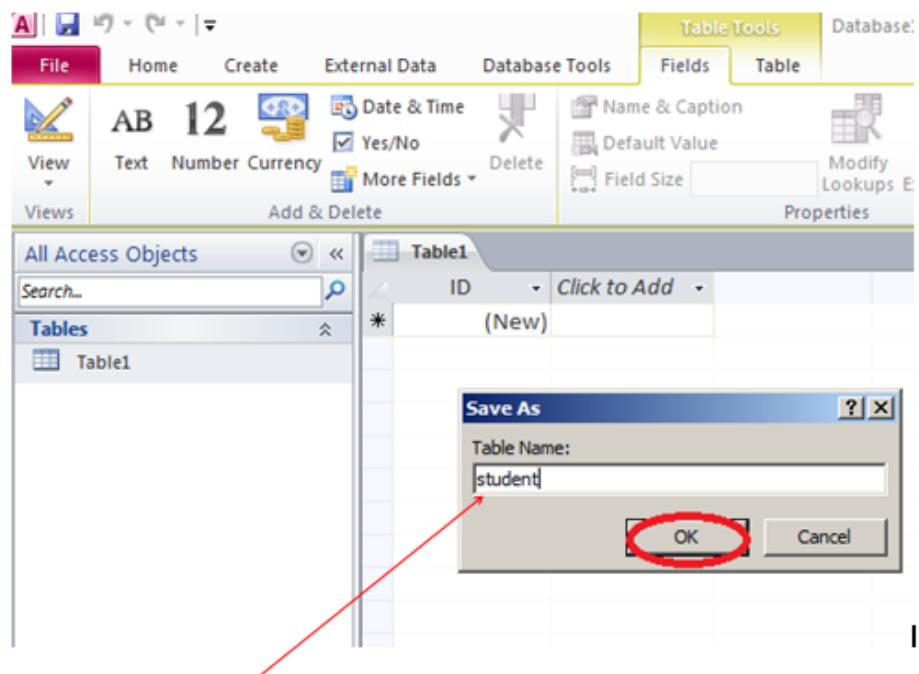


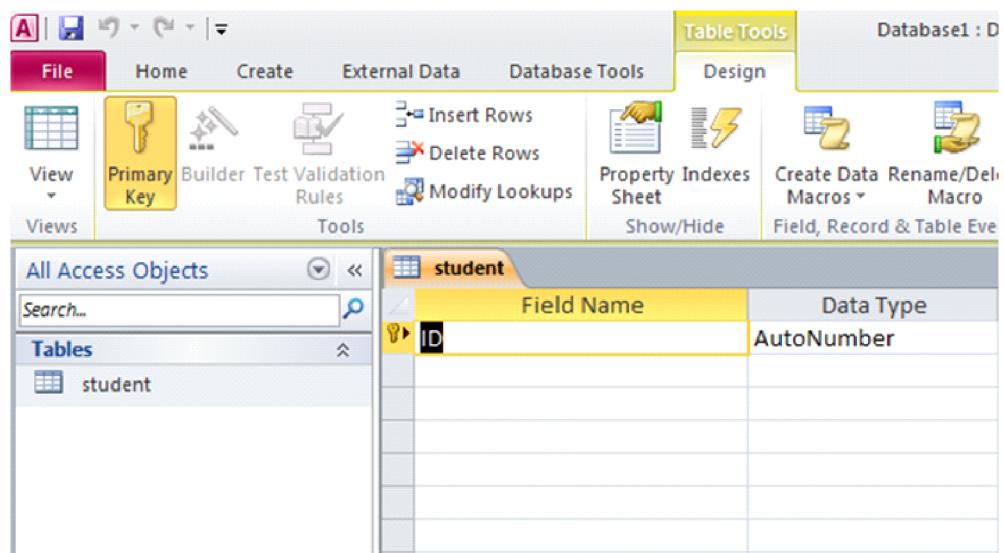
The most used tool is “**Start Debugging**” (Shortcut Key: F5).

Back end Creation in Microsoft Access 2010









This screenshot shows the Microsoft Access Table Design View for the 'student' table. The table structure is as follows:

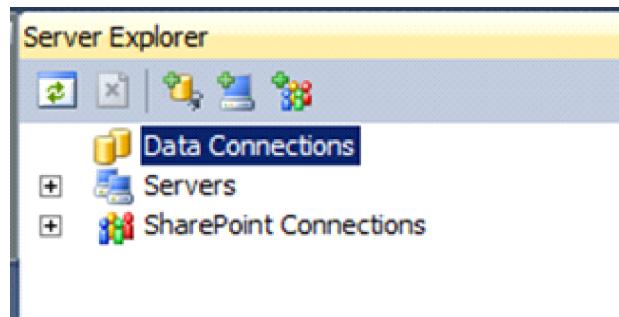
Field Name	Data Type
enrno	Currency
sname	Text
dob	Date/Time
ssex	Text
pits1	Currency
pits2	Currency
pits3	Currency
noatt	Currency
res	Text
tot	Currency
avg	Currency
grade	Text

Front end and back end connection procedure

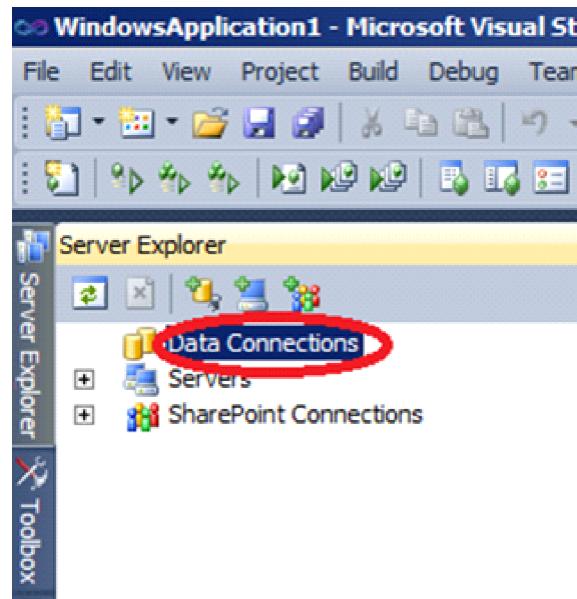
The following steps to be followed for connecting the backend to front end forms.

Select the server explorer option from the view menu of the standard tool bar. From where choose data connection.

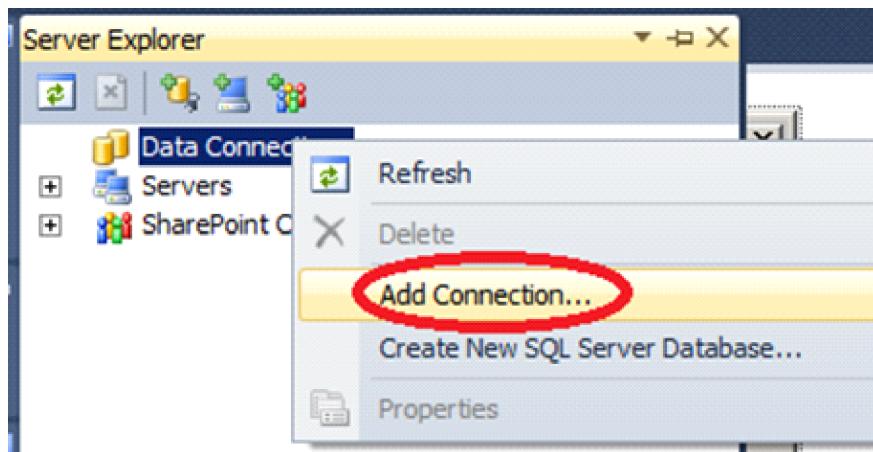
Step1: → go to Server explorer



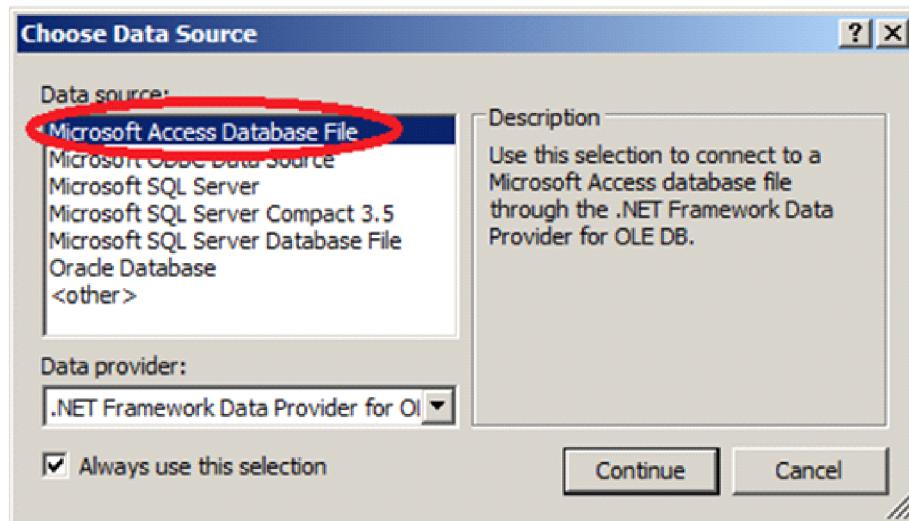
Choose → Data connections



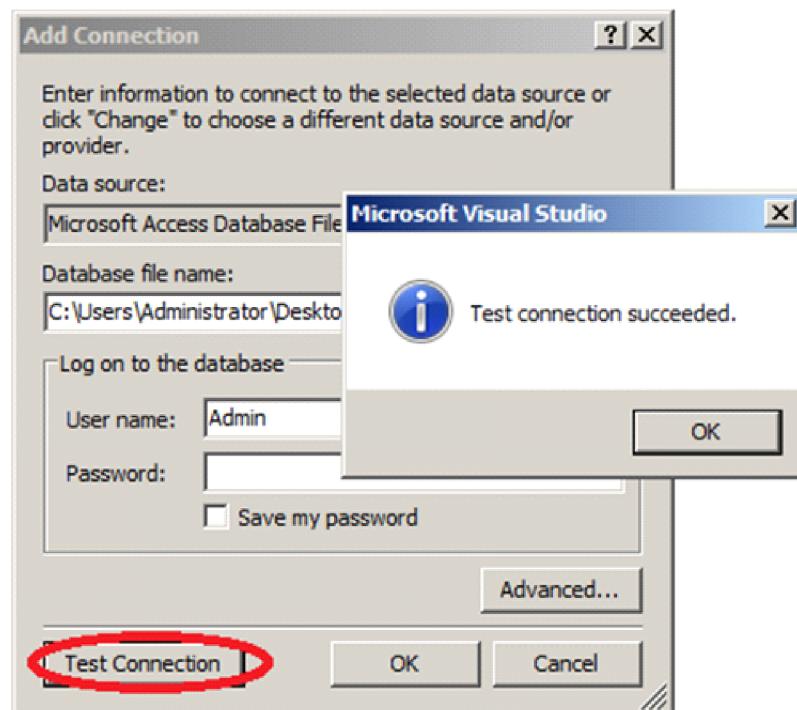
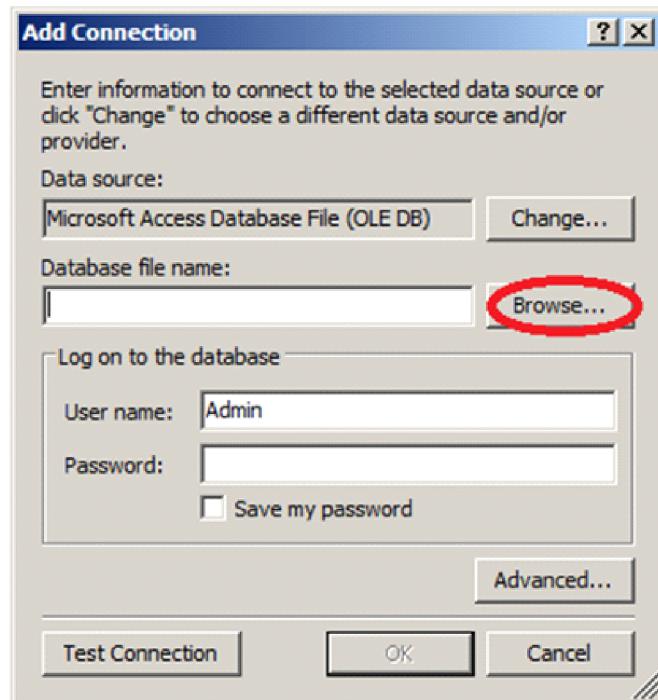
Right click and choose → Add Connection

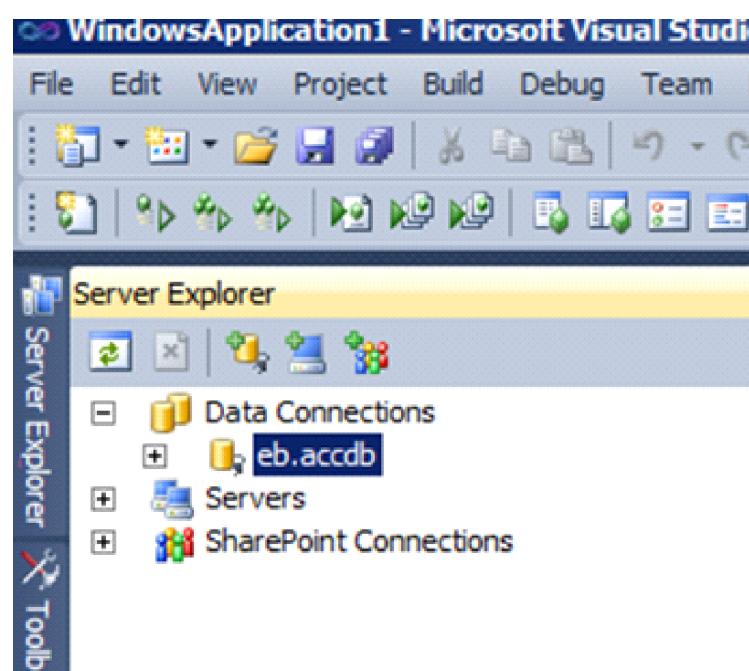
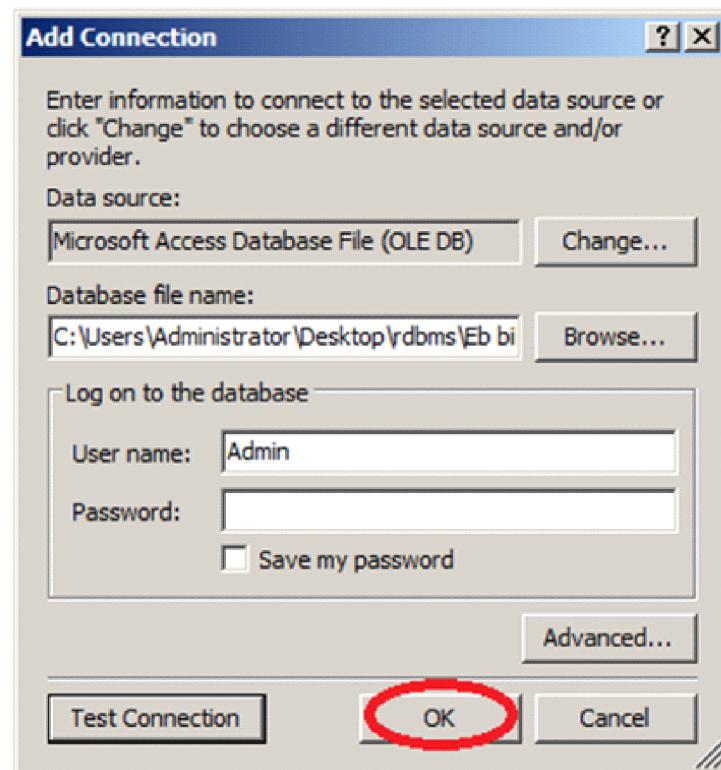


Next appear dialog box as follows àthen choose Data Source and select the → **Microsoft Access Database File**



Then "Continue" and choose "Browse" and select the DataBase

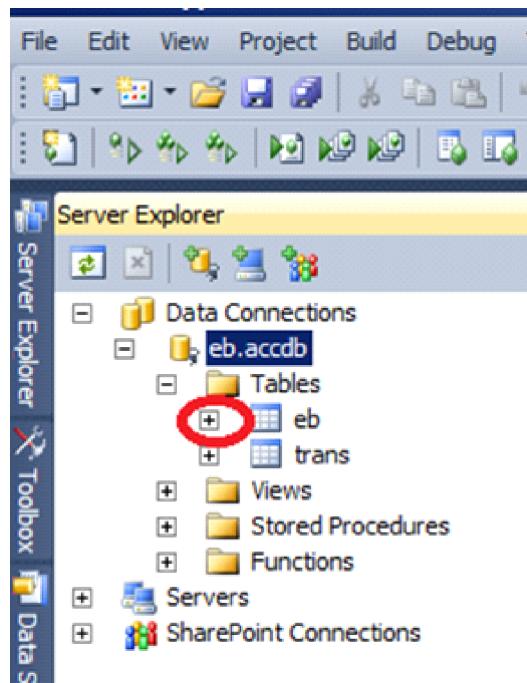


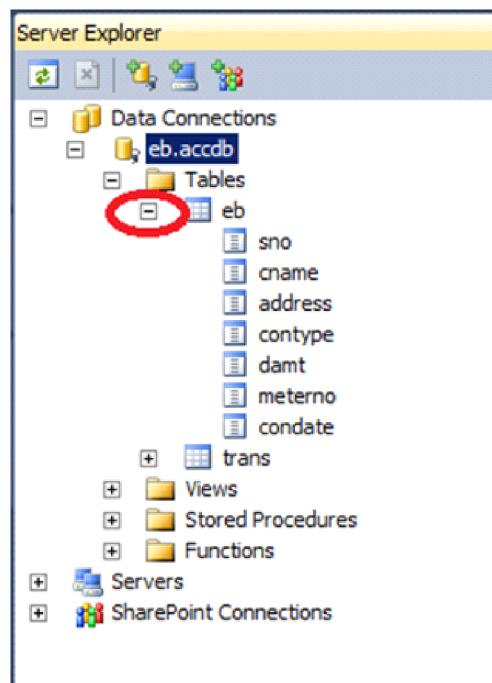




Right Click → and go to properties windows → and choose connection Strings → copy the path

Provider=Microsoft.ACE.OLEDB.12.0;Data Source=C:\Users\Administrator\rdbms\Eb
bill\eb.accdb

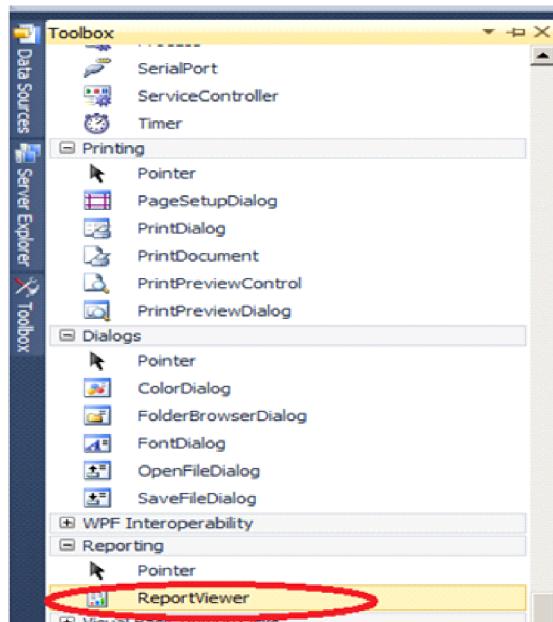




Creating a Report

Step 1:

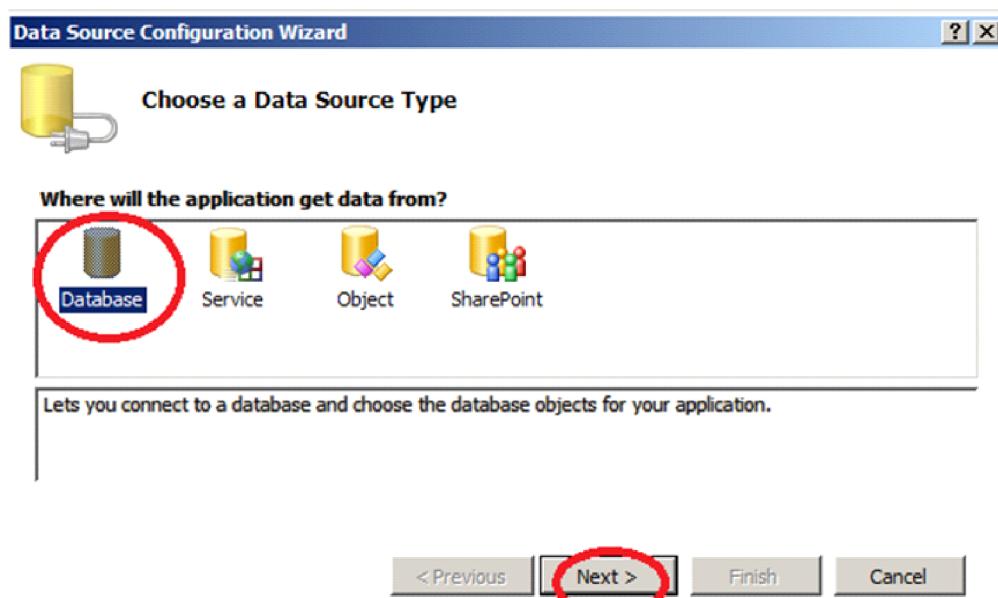
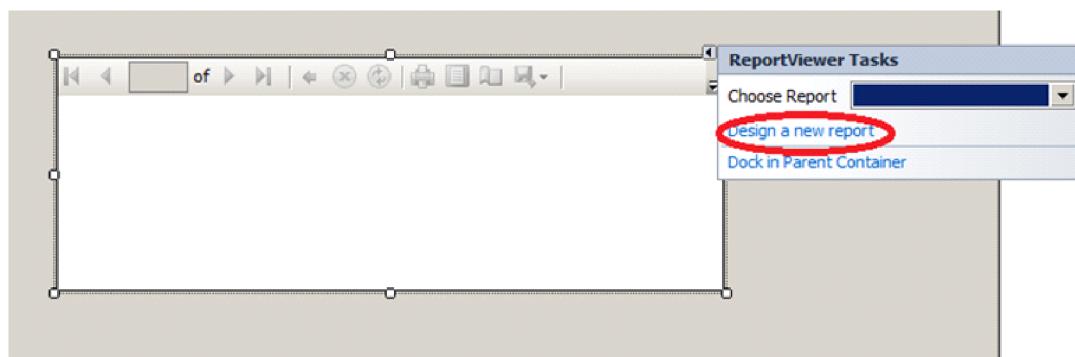
Goto toolbox and choose →reporting→ reportviewer



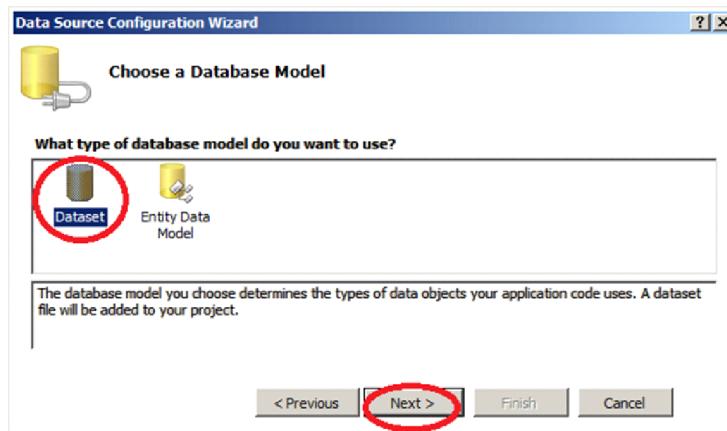
Create a New WindowsForm → Drag ReportViewer



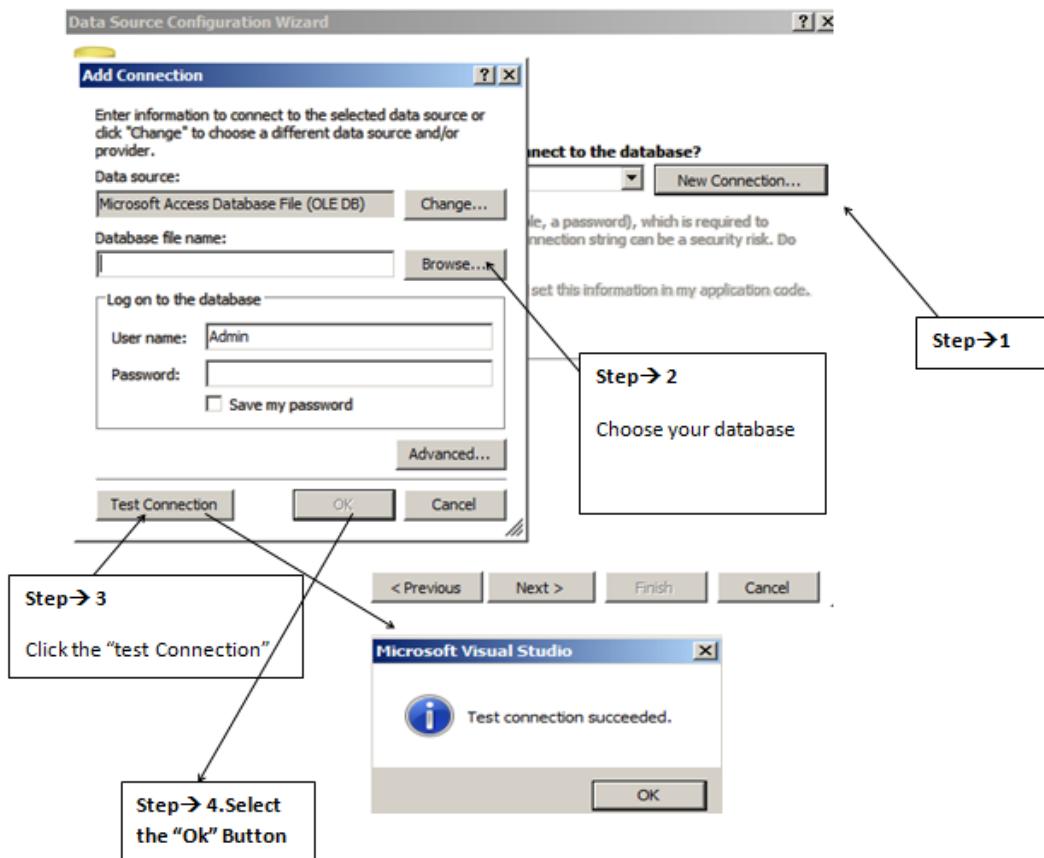
Next



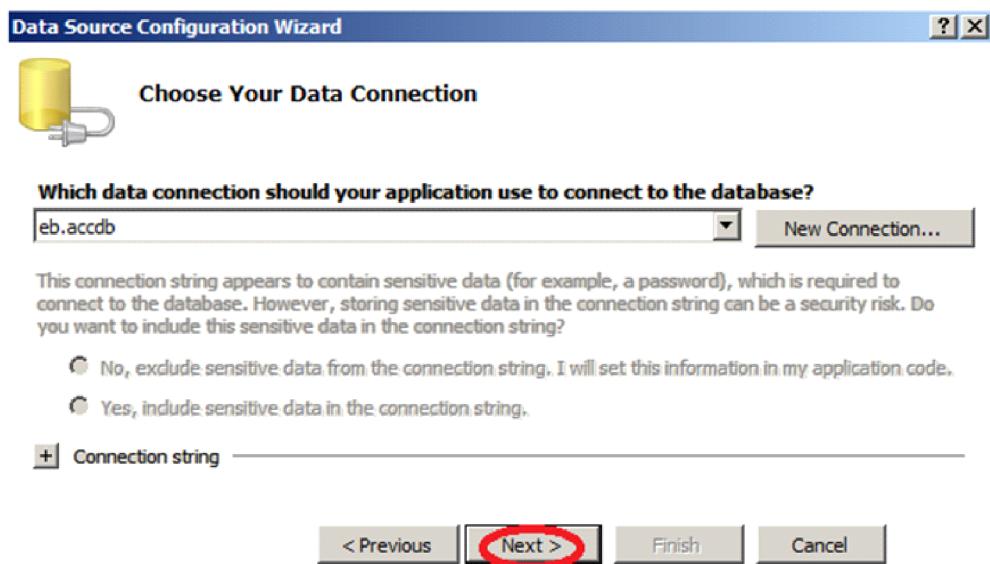
Next



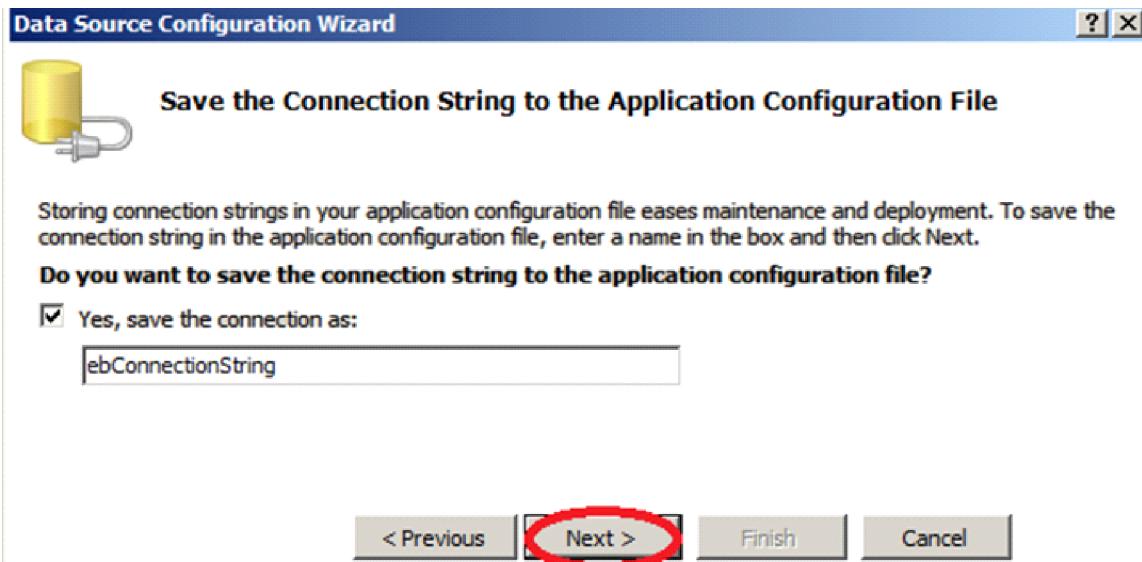
Next step



Next



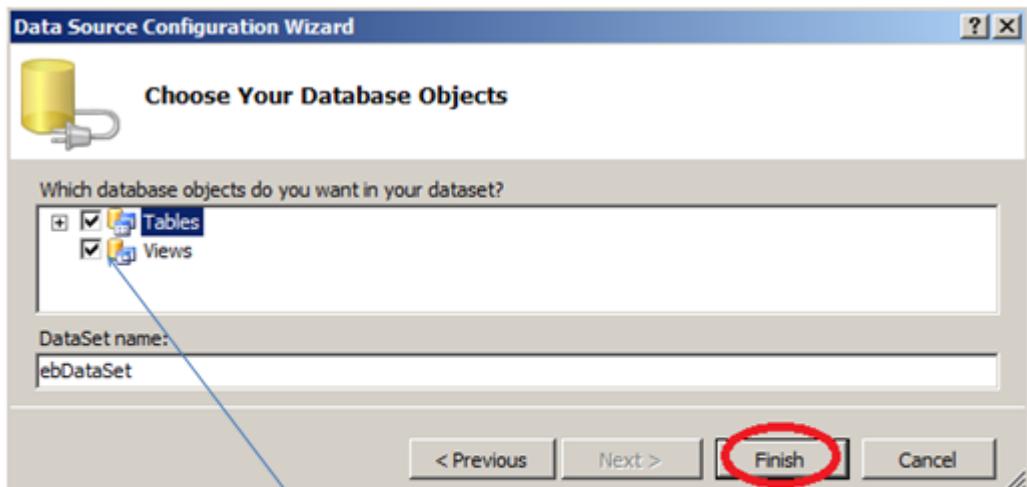
Next



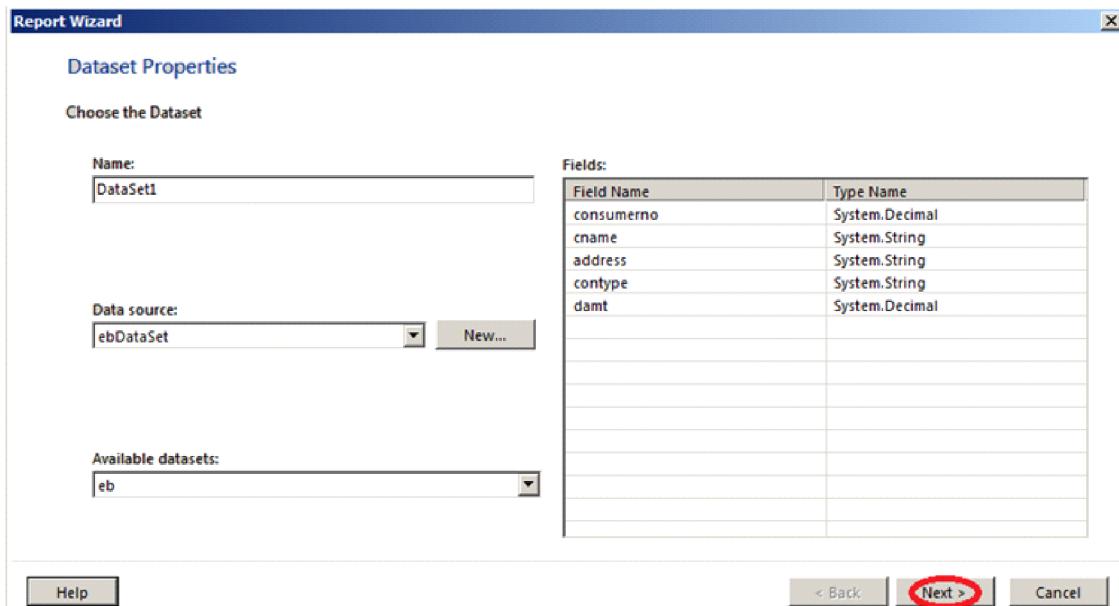
Next



Next



Select the "tick mark" and click the finish button



Next

Report Wizard

Arrange fields

Arrange fields to group data in rows, columns, or both, and choose values to display. Data expands across the page in column groups and down the page in row groups. Use functions such as Sum, Avg, and Count on the fields in the Values box.

Available fields

- consumerno
- cname
- address
- contype
- damt

Column groups

Row groups

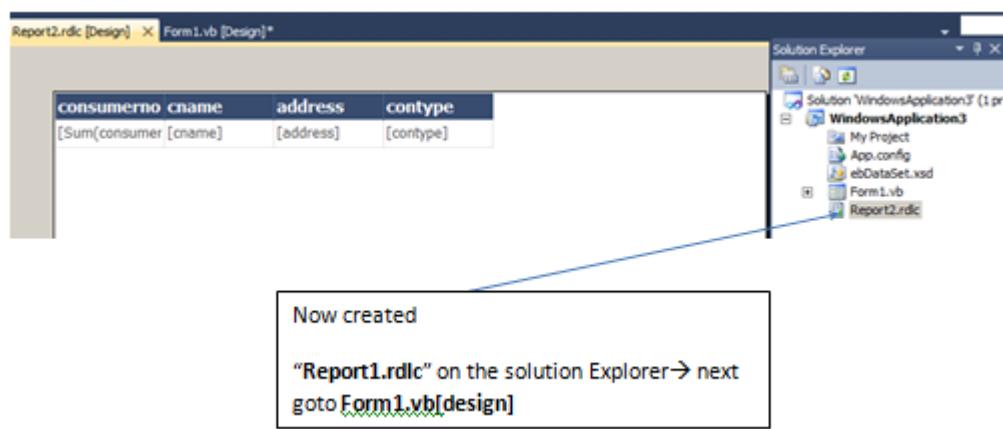
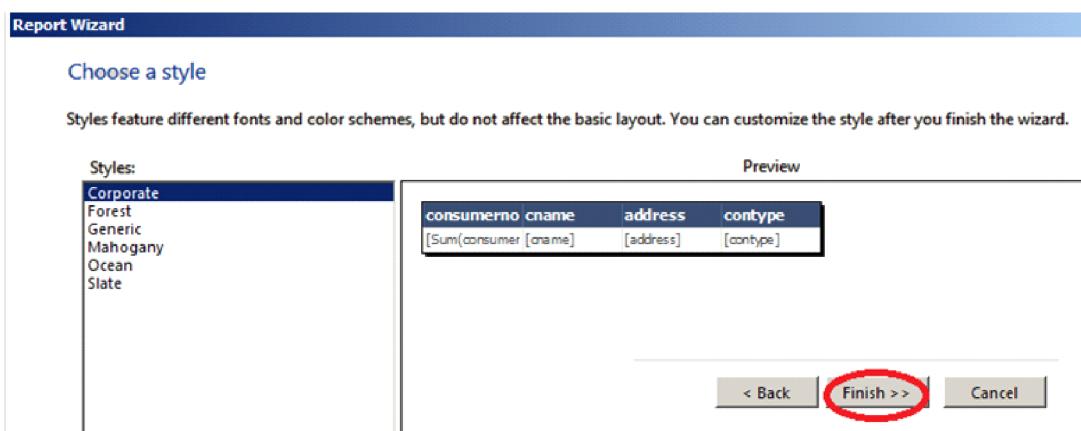
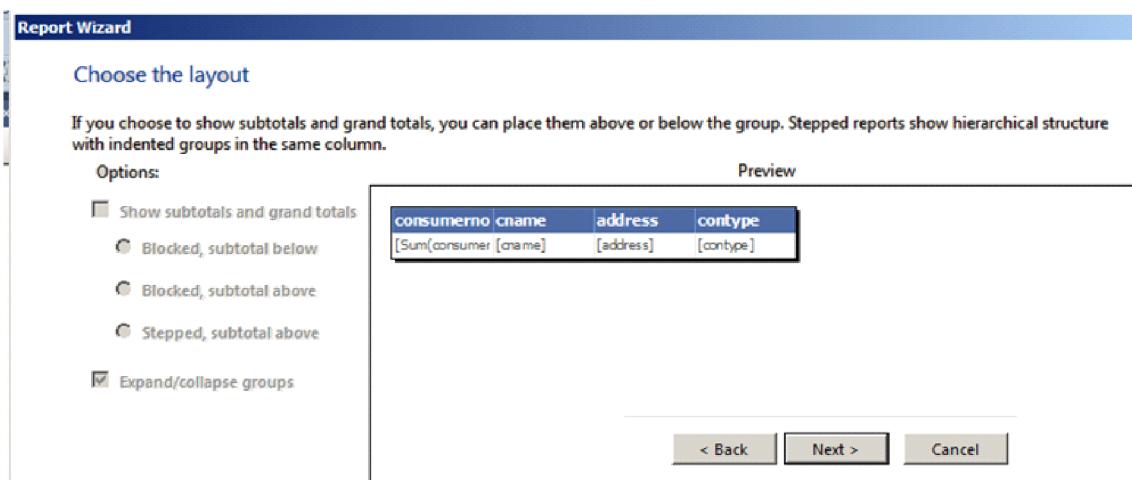
Σ Values

Select the required fields one by one drag on to → "Values" section

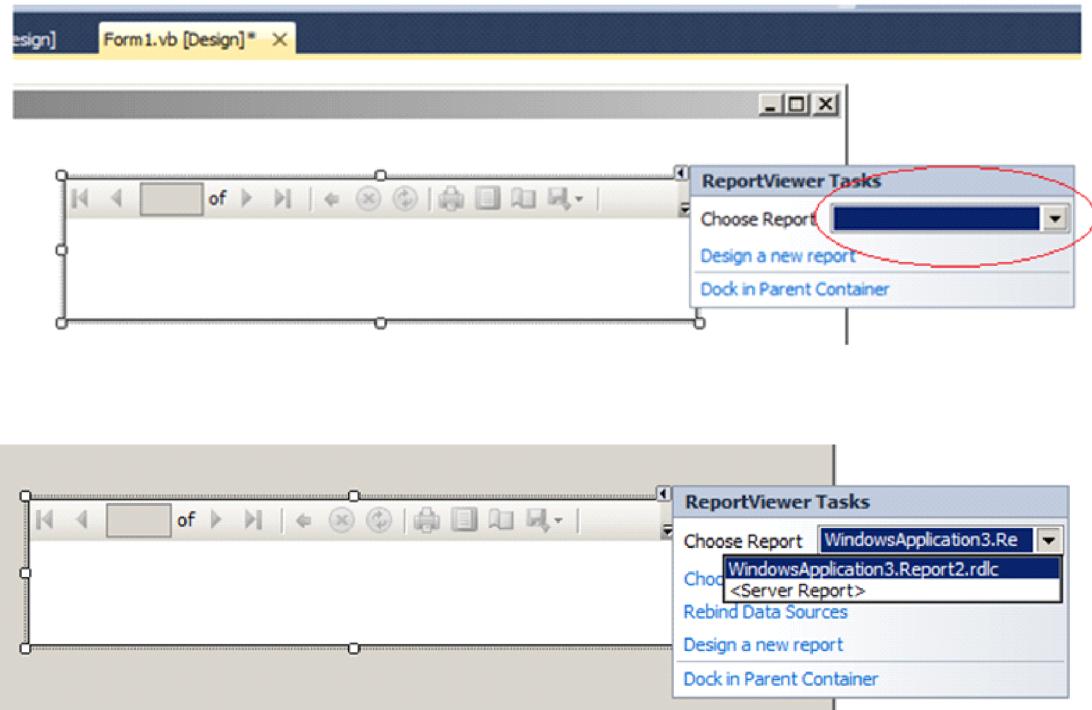
Σ Values

Sum(consumerno)
cname
address
contype

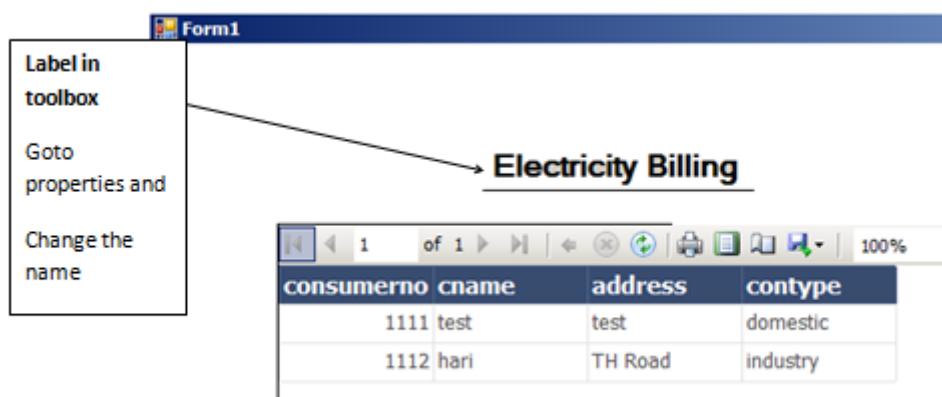
Next the layout will be displayed as follows



next



Run the report form and get the report form



1. Aim : To create student database and produce Mark listfor the Students

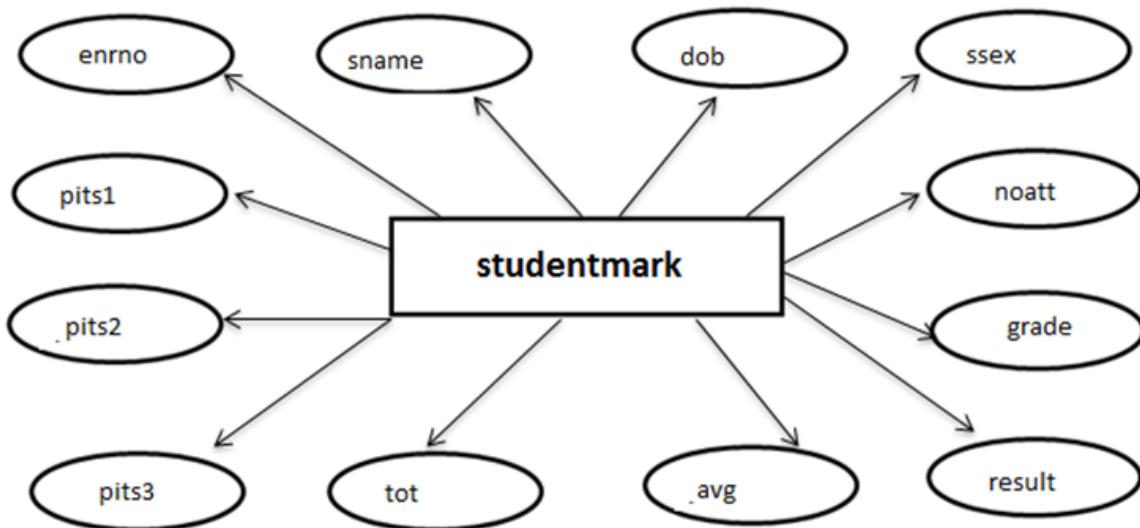
Procedure

- 1) Creating a new project in windows applications.
- 2) Front End Application using - VB .Net 2010
- 3) Back End Application using - Microsoft Access 2010
- 4) In FILE menu select “NEW PROJECT”.
- 5) Give the name for Project “studentmarksheet” and click “OK”. Window with Form1.vb gets generated.
- 6) Select textboxes, labels, menu strips, combo box and buttons from Toolbox.
- 7) Set the properties of controls as below.
- 8) Build the Project and Execute by Start Debugging or by pressing F5.

Table structure

Table structure : studentmark

Field Name	Type
enrno	Currency
sname	Text
dob	Date/Time
ssex	Text
pits1	Currency
pits2	Currency
pits3	Currency
noatt	Currency
res	Text
tot	Currency
avg	Currency
grade	Text

ER Diagram:**RESULT:**

Thus the program is compiled and executed successfully and the reports are obtained.

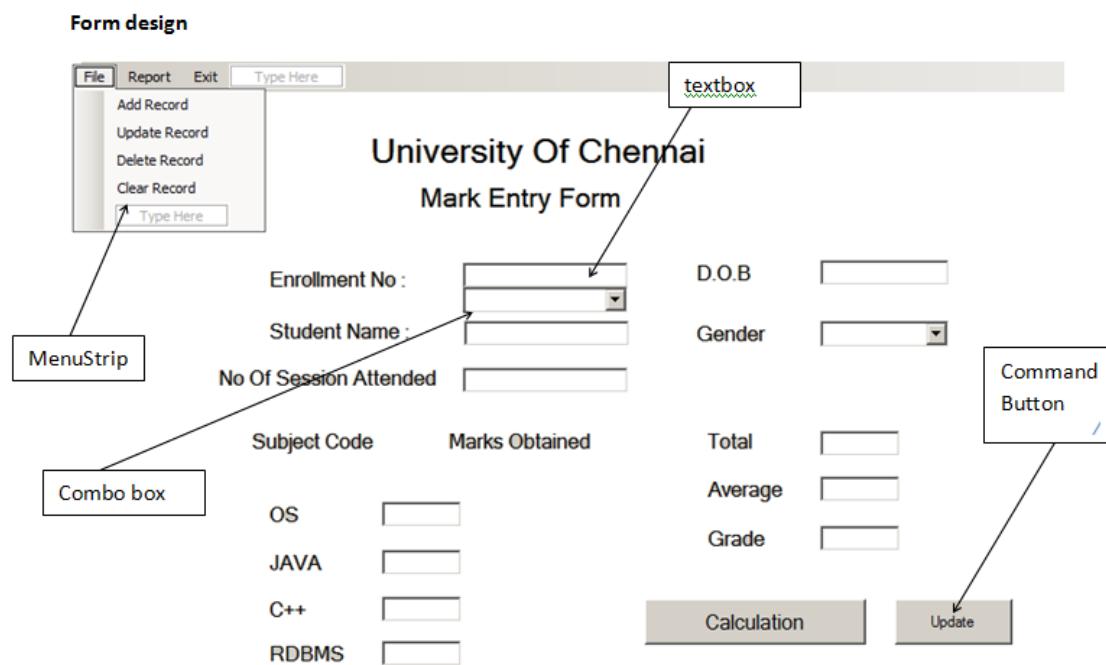
Student mark sheet processing

1. Designing the Form:
2. Step 1: Open Visual Studio 2010 → Windows Application
3. Step 2 : Create a menu use the Menu toolstrip

Table structure :student

Field Name	Type	Description
enrno	Currency	Enrollment Number
sname	Text	Name of the Student
dob	Date/Time	Date of Birth
ssex	Text	Gender
pits1	Currency	Mark
pits2	Currency	Mark
pits3	Currency	Mark
noatt	Currency	No of attendance
res	Text	Result
tot	Currency	Total
avg	Currency	Average
grade	Text	Grade

Form design



Setting Properties

Controls name	Properties	values
Label1	text	Enrollment No
Label2	text	Student Name
Label3	text	No Of Session Attended
Label4	text	D.O.B
Label5	text	Gender
Label6	text	Subject Code
Label7	text	Marks Obtained
Label8	text	OS
Label9	text	JAVA
Label10	text	C++
Label11	text	RDBMS
Label12	text	Total

Label13	text	Average
Label14	text	Grade
Textbox1	name	tenrno
Textbox2	name	tsname
Textbox3	name	tdob
Textbox4	name	tpits1
Textbox5	name	tpits2
Textbox6	name	tpits3
Textbox7	name	tpits4
Textbox8	name	tatt1
Textbox9	name	ttot
Textbox10	name	tavg
Textbox11	name	tres
Combo box1	name	tssex
Combo box2	name	comroll
MenuStrip1		

Form1.vb Coding

Imports System.Data.OleDb

Public Class Form1

```
    Dim con As New OleDbConnection
```

```
    Dim cmd As New OleDbCommand
```

```
    Dim dr As OleDbDataReader
```

Private Sub Form1_Load (ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

```
    Btupdate.Visible = False
```

```
    con =
```

```
    NewOleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;
```

```
        DataSource=C:\Users\Desktop\rdbms\
```

```
        WindowsApplication2\WindowsApplication2\student.mdb")
```

```

con.Open()
MsgBox("DB Connected")
combroll.Visible = False
cmd.Connection = con
cmd.CommandText = "select max(enrno) from stu "
dr = cmd.ExecuteReader()
While dr.Read
    tenrno.Text = Val(dr(0).ToString()) + 1
End While
dr.Close()

```

End Sub**Private Sub Calcul_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Calcul.Click**

```

ttot.Text = Convert.ToInt32(tpits1.Text) + Convert.ToInt32(tpits2.Text) +
            Convert.ToInt32(tpits3.Text) + Convert.ToInt32(tpits4.Text)
tavg.Text = Val(ttot.Text) / 4
If Val(tpits1.Text) < 50 Or Val(tpits2.Text) < 50 Or Val(tpits3.Text) < 50 Or Val(tpits4.Text) < 50 Then
    tres.Text = "fail"
ElseIf Val(tavg.Text) > 49 And Val(tavg.Text) < 60 Then
    tres.Text = "Second"
ElseIf Val(tavg.Text) > 60 And Val(tavg.Text) < 70 Then
    tres.Text = "First"
ElseIf Val(tavg.Text) > 70 Then
    tres.Text = "Distinction"
End If

```

End Sub

```
Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ExitToolStripMenuItem.Click
```

```
    End
```

```
End Sub
```

```
Private Sub AddRecordToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles AddRecordToolStripMenuItem.Click
```

```
    Dim result As String
```

```
    cmd.Connection = con
```

```
    Btupdate.Visible = False
```

```
If (Val(tpits1.Text) < 50) Or Val(tpits2.Text) < 50 Or Val(tpits3.Text) < 50 Or
```

```
    Val(tpits4.Text) < 50 Then
```

```
    result = "Fail"
```

```
ElseIf (Val(tpits1.Text) > 49 Or Val(tpits2.Text) > 49 Or Val(tpits3.Text) > 49 Or
```

```
    Val(tpits4.Text) > 49) Then
```

```
    result = "Pass"
```

```
ElseIf tpits1.Text = "AAA" Or tpits2.Text = "AAA" Or tpits3.Text = "AAA" Or tpits4.Text =
```

```
    "AAA" Then
```

```
    result = "AAAA"
```

```
End If
```

```
cmd.CommandText = "insert into stuvalues(@enrno,@sname,@dob,@ssex,  
    @pits1,@pits2, @pits3,@pits4,@noatt1,@res, @tot,@avg,@grade)"
```

```
cmd.Parameters.AddWithValue("@enrno", tenrno.Text)
```

```
cmd.Parameters.AddWithValue("@sname", tsname.Text)
```

```
cmd.Parameters.AddWithValue("@dob", Convert.ToDateTime(tdob.Text))
```

```
cmd.Parameters.AddWithValue("@ssex", tssex.Text)
```

```
    cmd.Parameters.AddWithValue("@pits1", Convert.ToInt32(tpits1.Text))
```

```
    cmd.Parameters.AddWithValue("@pits2", Convert.ToInt32(tpits2.Text))
```

```
    cmd.Parameters.AddWithValue("@pits3", Convert.ToInt32(tpits3.Text))
```

```
    cmd.Parameters.AddWithValue("@pits4", Convert.ToInt32(tpits4.Text))
```

```
    cmd.Parameters.AddWithValue("@noatt1", Convert.ToInt32(tatt1.Text))
```

```

    cmd.Parameters.AddWithValue("@res", result.ToString())
    cmd.Parameters.AddWithValue("@tot", Convert.ToInt32(tot.Text))
    cmd.Parameters.AddWithValue("@avg", avg.Text)
    cmd.Parameters.AddWithValue("@grade", grade.Text)
    cmd.ExecuteNonQuery()
    MsgBox("Record Added Successfully")
    cmd.Clone()
    con.Close()
End Sub

```

Private Sub ClearRecordToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ClearRecordToolStripMenuItem.Click

```

    tenrno.Text = ""
    tsname.Text = ""
    tatt1.Text = ""
    tdob.Text = ""
    tpits1.Text = ""
    tpits2.Text = ""
    tpits3.Text = ""
    tpits4.Text = ""
    ttot.Text = ""
    tavg.Text = ""
    tres.Text = ""
End Sub

```

Private Sub ReportToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ReportToolStripMenuItem.Click

```

    report.Show()
    report.ReportViewer1.Show()
End Sub

```

```
Private Sub tatt1_LostFocus(ByVal sender As Object, ByVal e As System.EventArgs)
Handles tatt1.LostFocus

    Dim a As Double
    a = (Val(tatt1.Text) / 32 * 100)
    If a < 50.0# Then
        MsgBox("Attendance Lack")
        tpits1.Enabled = False
        tpits2.Enabled = False
        tpits3.Enabled = False
        tpits4.Enabled = False
        ttot.Enabled = False
        tavg.Enabled = False
        tres.Enabled = False
        Calcul.Enabled = False
        tpits1.Text = 0
        tpits2.Text = 0
        tpits3.Text = 0
        tpits4.Text = 0
        ttot.Text = 0
        tavg.Text = 0
        tres.Text = ""
    Else
        tpits1.Enabled = True
        tpits2.Enabled = True
        tpits3.Enabled = True
        tpits4.Enabled = True
        ttot.Enabled = True
        tavg.Enabled = True
        tres.Enabled = True
        Calcul.Enabled = True
    End If
End Sub
```

```

Private Sub DeleteRecordToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles DeleteRecordToolStripMenuItem.Click

    Dim n As String, f As Integer, dstr As String
    n = InputBox("Enter the Student Roll No to be Deleted")
    Btupdate.Visible = False
    cmd.Connection = con
    cmd.CommandText = "select * from stu"
    dr = cmd.ExecuteReader()
    While (dr.Read())
        If dr("enrno").ToString() = n Then
            cmd = New OleDbCommand("delete from stu where enrno =@enrno", con)
            cmd.Parameters.AddWithValue("@enrno", n)
            cmd.ExecuteNonQuery()
            MsgBox("record deleted ")
            f = 1
        End If
    End While
    dr.Close()
    If f = 0 Then
        MsgBox("Record not found")
    End If
    dr.Close()
End Sub

```

```

Private Sub UpdateRecordToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles UpdateRecordToolStripMenuItem.Click

    Btupdate.Visible = True
    combroll.Visible = True
    tenrno.Visible = False
    cmd.Connection = con

```

```
cmd.CommandText = "select * from stu"
dr = cmd.ExecuteReader()
While dr.Read()
    combroll.Items.Add(dr("enrno").ToString)
End While
dr.Close()
End Sub
```

Private Sub combroll_SelectedIndexChanged(ByVal sender As Object, ByVal e As System.EventArgs) Handles combroll.SelectedIndexChanged

```
cmd.Connection = con
cmd.CommandText = "select * from stu where enrno=@enrno"
cmd.Parameters.AddWithValue("@enrno", combroll.SelectedItem)
dr = cmd.ExecuteReader()
While dr.Read()
    tsname.Text = dr(1).ToString
    tdob.Text = dr(2).ToString
    tssex.Text = dr(3).ToString
    tpits1.Text = dr(4).ToString
    tpits2.Text = dr(5).ToString
    tpits3.Text = dr(6).ToString
    tpits4.Text = dr(7).ToString
    tatt1.Text = dr(8).ToString
End While
dr.Close()
End Sub
```

```
Private Sub Btupdate_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Btupdate.Click  
    Dim s As String  
    s = "update stu set Sname=?,dob=?,SSex=?,pits1=?,pits2=?,pits3=?,"  
        pits4=?,Noatt1=?,tot=?,grade=? where enrno=?"  
    cmd = New OleDbCommand(s, con)  
    cmd.Parameters.AddWithValue("@sname", tsname.Text)  
    cmd.Parameters.AddWithValue("@dob", Convert.ToDateTime(tdob.Text))  
    cmd.Parameters.AddWithValue("@ssex", tssex.Text)  
    cmd.Parameters.AddWithValue("@pits1", Convert.ToInt32(tpits1.Text))  
    cmd.Parameters.AddWithValue("@pits2", Convert.ToInt32(tpits2.Text))  
    cmd.Parameters.AddWithValue("@pits3", Convert.ToInt32(tpits3.Text))  
    cmd.Parameters.AddWithValue("@pits4", Convert.ToInt32(tpits4.Text))  
    cmd.Parameters.AddWithValue("@noatt1", Convert.ToInt32(tatt1.Text))  
    cmd.Parameters.AddWithValue("@tot", Convert.ToInt32(ttot.Text))  
    cmd.Parameters.AddWithValue("@grade", tres.Text)  
    cmd.Parameters.AddWithValue("@enrno",  
        Convert.ToInt32(comroll.SelectedItem))  
    cmd.ExecuteNonQuery()  
    MsgBox("Records Updated Successfully")  
    Btupdate.Visible = False  
End Sub  
End Class
```

Output:

File Report Exit

University Of Chennai

Mark Entry Form

Enrollment No :	<input type="text" value="2"/>	D.O.B	<input type="text" value="2/21/1989"/>
Student Name :	<input type="text" value="Rani"/>	Gender	<input type="text" value="Female"/>
No Of Session Attended	<input type="text" value="34"/>		
Subject Code	Marks Obtained	Total	<input type="text" value="276"/>
OS	<input type="text" value="65"/>	Average	<input type="text" value="69"/>
JAVA	<input type="text" value="65"/>	Grade	<input type="text" value="First"/>
C++	<input type="text" value="68"/>	<input type="button" value="Calculation"/>	
RDBMS	<input type="text" value="78"/>		

Report

University Of Chennai

Enrollment No	Name	Attendance	Gender	Total	Average	Grade
2	Rani	34	Female	276	69	First
3	Selvi	18	Male	312	78	Distinction
4	Raja	23	Female	291	72.75	Distinction
5	Hari	34	Male	257	64.25	First

2. Aim : To create Electricity master and transaction tables and produce the EB bill for the customer.

Table structure

Table Name: eb

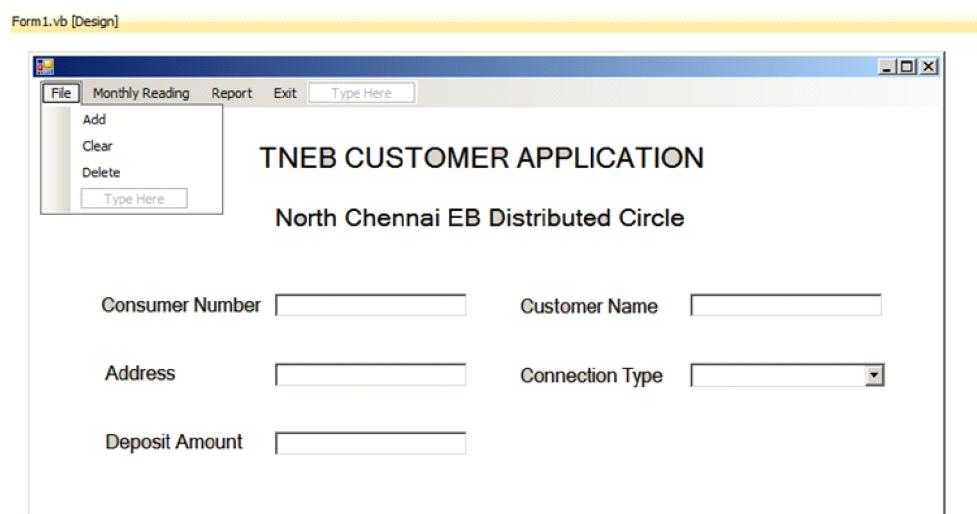
ELECTRICITY BILL PROCESSING

Field Name	Type	Description
consumerno	Currency	Serial Number
Cname	Text	Name of the Customer
Address	Text	Address of the customer
Contype	Text	Connection Type
Damt	Currency	Deposit Amount

Table Name: trans

Field Name	Type	Description
Cname	Text	Customer Number
consumerno	Currency	Meter Number
Contype	Text	Connection Type
Preread	Currency	Previous Reading
Curread	Currency	Current Reading
Units	Currency	No of Units
Amount	Currency	Amount
Mrdate	Date/Time	Meter Reading Date

Form 1



Coding

Form1.vb

Imports ADODB

Public Class Form1

```
Dim con As New ADODB.Connection
Dim rs As New ADODB.Recordset
Dim cmd As New ADODB.Command
Dim flag As Integer = 1
Dim str As String
```

Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

```
str = ""
```

```
combcontype.Items.Add("Domestic")
combcontype.Items.Add("Industry")
con.Open("Provider=Microsoft.ACE.OLEDB.12.0;DataSource=C:\Users\dell\Desktop\rbms
\Eb bill\Eb bill\eb.accdb")
MsgBox("Connected")
cmd.ActiveConnection = con
cmd.CommandText = "select max(consumerno) from eb"
rs = cmd.Execute()
tconsumerno.Text = (Val(rs.Fields(0).Value) + 1).ToString
End Sub
```

Private Sub AdToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles AdToolStripMenuItem.Click

```
'rs = con.Execute("insert into eb values (@sno)")
cmd.ActiveConnection = con
cmd.CommandText = "insert into eb
values(@consumerno,@cname,@address,@contype,@damt)"
cmd.Parameters.Item(0).Value = Convert.ToDouble(tconsumerno.Text)
```

```

cmd.Parameters.Item(1).Value = tcustname.Text
cmd.Parameters.Item(2).Value = taddress.Text
cmd.Parameters.Item(3).Value = combcontype.SelectedItem.ToString
cmd.Parameters.Item(4).Value = Convert.ToDouble(tdepamt.Text)
cmd.ExecuteNonQuery()
MsgBox("Inserted")

```

End Sub

```

Private Sub ReportToolStripMenuItem_Click(ByVal sender As System.Object,
        ByVal e As System.EventArgs) Handles ReportToolStripMenuItem.Click
    Me.Hide()
    Report.Show()
    Report.ReportViewer2.Show()
    Report.ReportViewer1.Hide()
    Report.Label1.Visible = False
    Report.Label2.Text = "EB Account Holder Report"
End Sub

```

```

Private Sub ClearToolStripMenuItem_Click(ByVal sender As System.Object,
        ByVal e As System.EventArgs) Handles ClearToolStripMenuItem.Click
    tconsumerno.Text = ""
    tcustname.Text = ""
    taddress.Text = ""
    tdepamt.Text = ""
End Sub

```

```

Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal
        e As System.EventArgs) Handles ExitToolStripMenuItem.Click
    End Sub

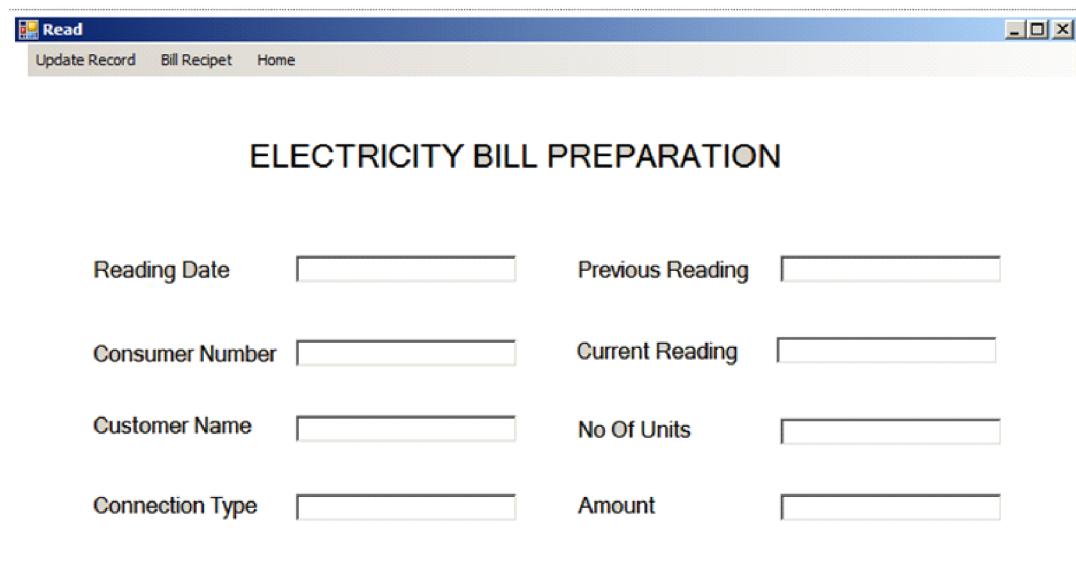
```

```

Private Sub MonthlyReadingToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MonthlyReadingToolStripMenuItem.Click
    Me.Hide()
    Read.Show()
End Sub
End Class

Private Sub DeleteToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles DeleteToolStripMenuItem.Click
    cmd.ActiveConnection = con
    Dim no As Integer = Val(InputBox("Enter the Consumer no"))
    cmd.CommandText = "select * from eb "
    rs = cmd.Execute()
    Do Until rs.EOF
        If rs.Fields(0).Value = no Then
            cmd.CommandText = "delete * from eb where sno=@sno"
            cmd.Parameters.Item(0).Value = no
            cmd.ExecuteNonQuery()
            MsgBox("Record Deleted")
            flag = 0
            Exit Do
        End If
        rs.MoveNext()
    Loop
    If flag = 1 Then
        MsgBox("Record Not Found")
    End If
End Sub

```

Form2:**Read.vb****Public Class Read**

```

Dim con As New ADODB.Connection
Dim rs As New ADODB.Recordset
Dim cmd As New ADODB.Command
Dim flag As Integer = 1
Dim str As String

```

Private Sub Read_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

```

con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\Users\dell\Desktop\rdbms\Eb bill\Eb bill\eb.accdb")
Msgbox"DB connected"
treaddate.Text = Date.Now
treaddate.Select()

```

End Sub

```

Private Sub UpdateRecordToolStripMenuItem_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
UpdateRecordToolStripMenuItem.Click

    cmd.ActiveConnection = con
    cmd.CommandText = "insert into trans values
        (@cname,@consumemo,@contype,@preread,@curead,@units,@amount,@mrdate)"
    cmd.Parameters.Item(0).Value = Val(tconsumer.Text)
    cmd.Parameters.Item(1).Value = tcustname.Text
    cmd.Parameters.Item(2).Value = tcontype.Text
    cmd.Parameters.Item(3).Value = Val(tpreread.Text)
    cmd.Parameters.Item(4).Value = Val(tcuread.Text)
    cmd.Parameters.Item(5).Value = Val(tunits.Text)
    cmd.Parameters.Item(6).Value = Val(tamount.Text)
    cmd.Parameters.Item(7).Value = CDate(treaddate.Text)
    cmd.Execute()
    MsgBox(" Record Updated")

```

End Sub

```

Private Sub tcurread_LostFocus(ByVal sender As Object, ByVal e As
System.EventArgs) Handles tcurread.LostFocus
    tunits.Text = (Convert.ToDouble(tcurread.Text) -
        Convert.ToDouble(tpreread.Text)).ToString

```

End Sub

```

Private Sub tunits_LostFocus(ByVal sender As Object, ByVal e As
System.EventArgs) Handles tunits.LostFocus

    If tcontype.Text = "domestic" Then
        If Val(tunits.Text) < 100 Then
            tamount.Text = 2 * Val(tunits.Text)
        ElseIf Val(tunits.Text) > 100 And Val(tunits.Text) < 200 Then

```

```

tamount.Text = 100 + (Val(tunits.Text) - 100) * 3
ElseIf Val(tunits.Text) > 200 Then
    tamount.Text = 100 + 300 + (Val(tunits.Text) - 200) * 5
End If
End If
If tctype.Text = "commerical" Then
    If Val(tunits.Text) < 100 Then
        tamount.Text = 4.5 * Val(tunits.Text)
    ElseIf Val(tunits.Text) > 100 And Val(tunits.Text) < 200 Then
        tamount.Text = 450 + (Val(tunits.Text) - 100) * 3.5
    ElseIf Val(tunits.Text) > 200 Then
        tamount.Text = 450 + 750 + (Val(tunits.Text) - 200) * 10
    End If
End If
End Sub
```

```

Private Sub BillRecipetToolStripMenuItem_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
BillRecipetToolStripMenuItem.Click
    Me.Hide()
    Report.Show()
    Report.ReportViewer1.Show()
    Report.ReportViewer2.Hide()
    Report.Label1.Visible = True
    Report.Label2.Text = " Bill Receipt"
End Sub
```

```
Private Sub HomeToolStripMenuItem_Click(ByVal sender As System.Object,  
    ByVal e As System.EventArgs) Handles HomeToolStripMenuItem.Click
```

```
    Me.Hide()
```

```
    Form1.Show()
```

```
End Sub
```

```
Private Sub tconsumer_LostFocus(ByVal sender As Object, ByVal e As  
    System.EventArgs) Handles tconsumer.LostFocus
```

```
    cmd.ActiveConnection = con
```

```
    cmd.CommandText = "select * from eb where consumerno=@consumerno"
```

```
    cmd.Parameters.Item(0).Value = tconsumer.Text
```

```
    rs = cmd.ExecuteReader()
```

```
    Do Until rs.EOF
```

```
        tcustname.Text = rs.Fields(1).Value
```

```
        tcontype.Text = rs.Fields(3).Value
```

```
        rs.MoveNext()
```

```
        flag = 0
```

```
    Loop
```

```
    If flag = 1 Then
```

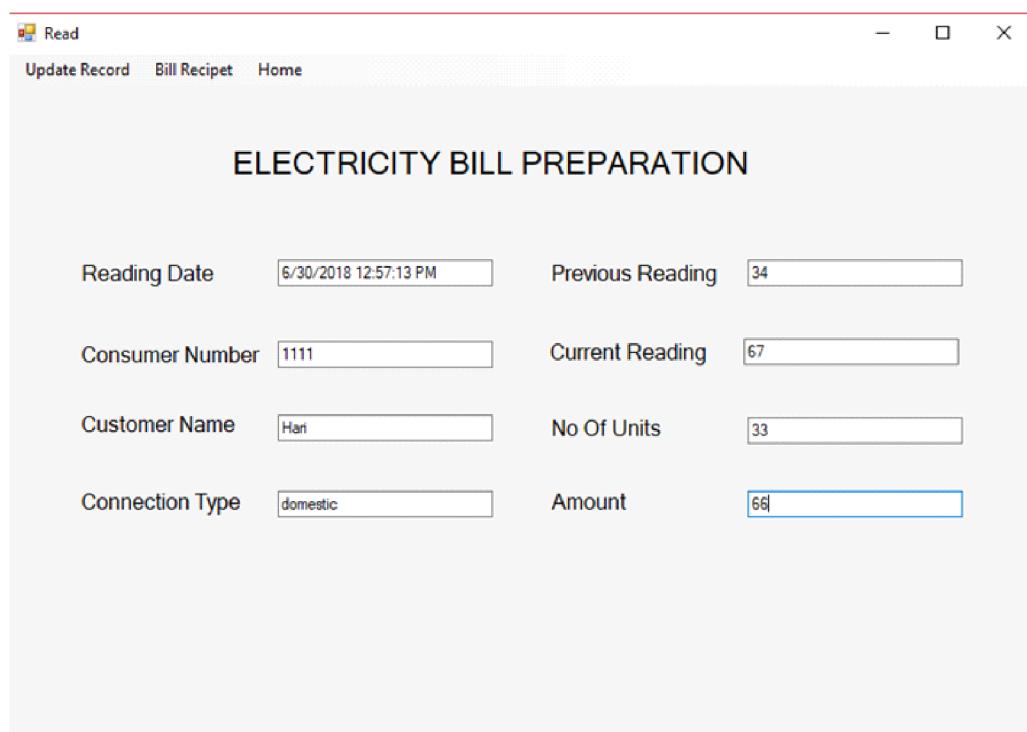
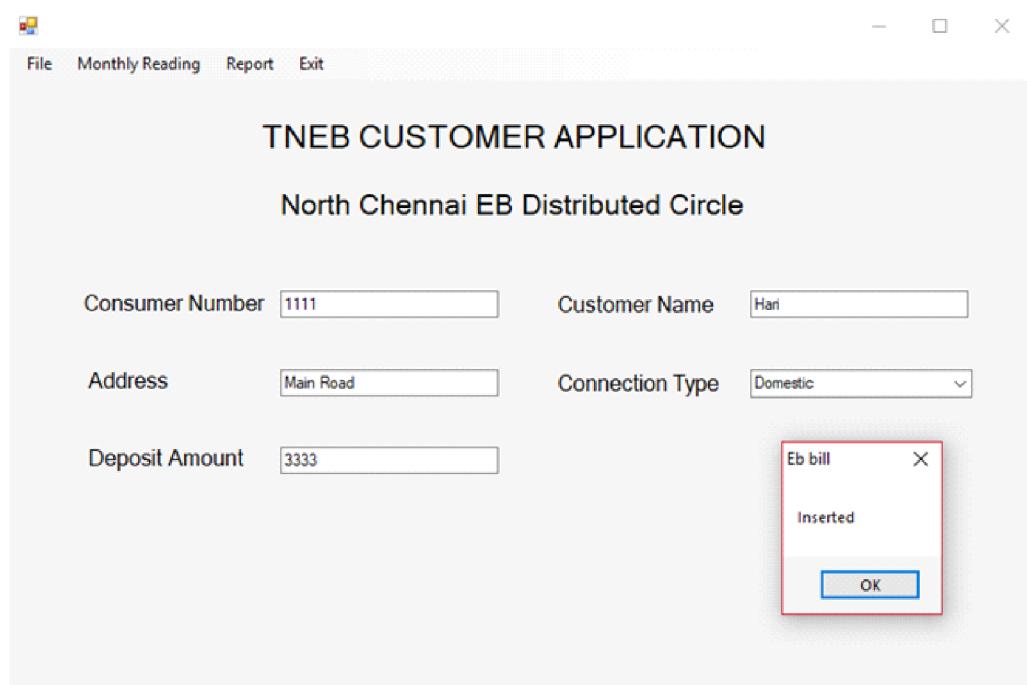
```
        MsgBox("Enter Valid Consumer Number")
```

```
    End If
```

```
End Sub
```

```
End Class
```

```
Output
```



Report

Bill Receipt

Name	Consumerno	Con Type	Previous Read	Current Read	Units	Amount
hari	1111	domestic	34	67	33	66
selvi	1112	domestic	67	123	56	256
raja	1113	domestic	456	567	111	133
rani	1114	domestic	123	444	321	1005

Signature

EB Account Holder Report

Consumerno	Name	Address	Con Type	Deposit Amount
1111	hari	Main Road	domestic	3333
1112	selvi	TH Road	industry	100000
1113	raja	KK Nagar	domestic	2000
1114	rani	Ashok Nagar	domestic	4000

4. Aim : To create master and transaction tables for Gas connection and Booking respectively. Process and generate Report for the same.

Table Structure

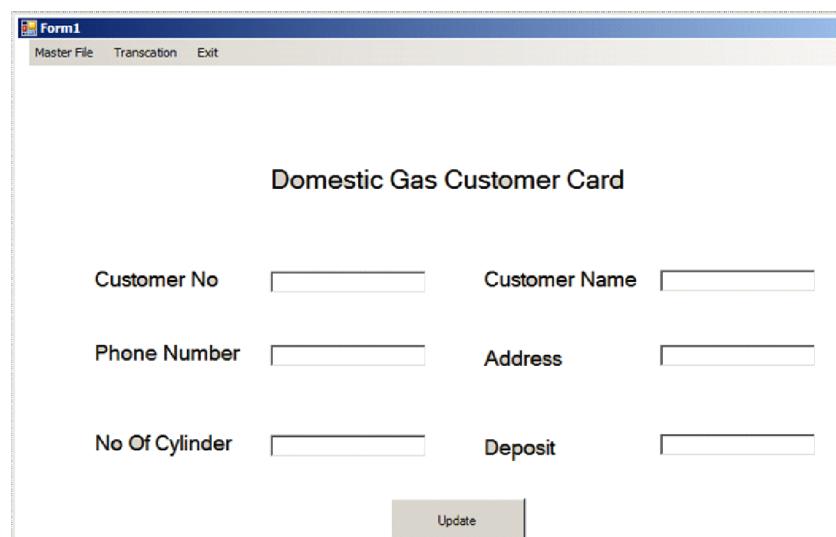
GAS BOOKING

Field Name	Type	Description
custno	Currency	Customer Number
custname	Text	Name of the Customer
custaddr	Text	Address of the customer
phone	Currency	Phone Number
nocylin	Currency	No of cylinder
damt	Currency	Deposit Amount

Table Name: **trans**

Field Name	Type	Description
custno	Currency	Customer Number
custname	Text	Name of the Customer
address	Text	Address of the customer
cphone	Currency	Phone Number
bookingno	Currency	Cylinder Booking Number
bdate	Date/Time	Booking Date
ddate	Date/Time	Delivery Date
billamt	Currency	Bill Amount

Form1



```

Imports ADODB
Public Class Form1
    Dim con As New ADODB.Connection
    Dim rs As New ADODB.Recordset
    Dim cmd As New ADODB.Command
    Dim flag As Integer = 1
    Dim no As Double
    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles MyBase.Load
        con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
            Source=C:\Users\dell\Desktop\rdbms\Gasbooking\gas.accdb")
        bupdate.Visible = False
        MsgBox("Connected")
    End Sub

    Private Sub AddToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles AddToolStripMenuItem.Click
        bupdate.Visible = False
        cmd.ActiveConnection = con
        cmd.CommandText = "insert into gas
            values(@custno,@custname,@custaddr,@phone,@nocylin,@damt)"
        cmd.Parameters.Item(0).Value = Val(tcustno.Text)
        cmd.Parameters.Item(1).Value = tcustname.Text
        cmd.Parameters.Item(2).Value = taddress.Text
        cmd.Parameters.Item(3).Value = Val(tpho.Text)
        cmd.Parameters.Item(4).Value = Val(tcylin.Text)
        cmd.Parameters.Item(5).Value = Val(tdept.Text)
        cmd.Execute()

        MsgBox("Added")
    End Sub

```

```

Private Sub DeleteToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles DeleteToolStripMenuItem.Click
    bupdate.Visible = False
    cmd.ActiveConnection = con
    no = Val(InputBox("Enter the Customer No "))
    disp()
    If flag = 0 Then
        cmd.CommandText = "delete * from gas where custno=@custno"
        cmd.Parameters.Item(0).Value = no
        rs = cmd.Execute()
        MsgBox(" Record Deleted")
    End If
End Sub

```

```

Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles ExitToolStripMenuItem.Click
    End
End Sub

```

```

Private Sub UpdateToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles UpdateToolStripMenuItem.Click
    no = Val(InputBox("Enter customer Customer No"))
    disp()
    bupdate.Visible = True
End Sub
Public Function disp()
    cmd.ActiveConnection = con
    cmd.CommandText = "select * from gas where custno=@custno"
    cmd.Parameters.Item(0).Value = no
    rs = cmd.Execute()

```

```

Do Until rs.EOF
    tcustno.Text = Val(rs.Fields(0).Value)
    tcustname.Text = rs.Fields(1).Value
    taddress.Text = rs.Fields(2).Value
    tpho.Text = Val(rs.Fields(3).Value)
    tcylin.Text = Val(rs.Fields(4).Value)
    tdept.Text = Val(rs.Fields(5).Value)
    rs.MoveNext()
    flag = 0
Loop
If flag = 1 Then
    MsgBox(" Invalid Customer No")
    bupdate.Visible = False
End If
End Function

```

```

Private Sub bupdate_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles bupdate.Click
cmd.CommandText = "update gas set
    custno=?,custname=?,custaddr=?,nocylin=?,damt=? where phone=?"
    cmd.Parameters.Item(0).Value = Val(tcustno.Text)
    cmd.Parameters.Item(1).Value = tcustname.Text
    cmd.Parameters.Item(2).Value = taddress.Text
    cmd.Parameters.Item(4).Value = Val(tcylin.Text)
    cmd.Parameters.Item(5).Value = Val(tdept.Text)
    cmd.Parameters.Item(3).Value = Val(tpho.Text)
    cmd.Execute()
    MsgBox(" Record Updated")
    bupdate.Visible = False
End Sub

```

```

Private Sub TranscationToolStripMenuItem_Click(ByVal sender As System.Object,
    ByVal e As System.EventArgs) Handles TranscationToolStripMenuItem.Click
    Me.Hide()
    trans.Show()
End Sub
End Class
Trans.vb (coding)

```



Booking No	<input type="text"/>	Customer No	<input type="text"/>
Phone Number	<input type="text"/>	Customer Name	<input type="text"/>
Address	<input type="text"/>	Booking Date	<input type="text"/>
Delivery Date	<input type="text"/>	Bill Amount	<input type="text"/>

Coding

Public Class trans

```

Dim con As New ADODB.Connection
Dim rs As New ADODB.Recordset
Dim cmd As New ADODB.Command
Dim flag As Integer = 1
Dim no As Double

```

```

Private Sub trans_Load(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles MyBase.Load
    con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
        Source=C:\Users\dell\Desktop\rdbms\Gasbooking\gas.accdb",
        UserID:="Admin", Password="")
    cmd.ActiveConnection = con
    cmd.CommandText = "select max(bookingno) from trans"
    rs = cmd.ExecuteReader()
    tbookno.Text = rs.Fields(0).Value + 1
End Sub

```

```

Private Sub BookingToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles BookingToolStripMenuItem.Click
    cmd.ActiveConnection = con
    cmd.CommandText = "insert into trans
        values(@custno,@custname,@custaddr,@phone,@boeingno,@bdate,ddate,billamt)"
    cmd.Parameters.Item(0).Value = Val(tcustno.Text)
    cmd.Parameters.Item(1).Value = tcustname.Text
    cmd.Parameters.Item(2).Value = taddress.Text
    cmd.Parameters.Item(3).Value = Val(tpho.Text)
    cmd.Parameters.Item(4).Value = Val(tbookno.Text)
    cmd.Parameters.Item(5).Value = Convert.ToDateTime(tbdate.Text)
    cmd.Parameters.Item(6).Value = Convert.ToDateTime(tddate.Text)
    cmd.Parameters.Item(7).Value = Val(tbamt.Text)
    cmd.ExecuteNonQuery()
    MsgBox("Cylinder Booked")
    clr()
End Sub

```

```

Private Sub HomeToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles HomeToolStripMenuItem.Click
    Me.Hide()
    Form1.Show()
End Sub

Function clr()
    tcustname.Text = ""
    tcustno.Text = ""
    taddress.Text = ""
    tpho.Text = ""
    tbookno.Text = ""
    tbamt.Text = ""
    tbdate.Text = ""
    tddate.Text = ""
End Function

```

```

Private Sub BillReportToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles BillReportToolStripMenuItem.Click
    Me.Hide()
    Report.Show()
    Report.DataGridView1.Show()
End Sub

```

```

Private Sub tcustno_LostFocus(ByVal sender As Object, ByVal e As
    System.EventArgs) Handles tcustno.LostFocus
    cmd.ActiveConnection = con
    cmd.CommandText = "select custname,phone,custaddr from gas where
        custno=?"
    cmd.Parameters.Item(0).Value = tcustno.Text
    rs = cmd.Execute()

```

```

Do Until rs.EOF
    tcustname.Text = rs.Fields(0).Value
    tpho.Text = rs.Fields(1).Value
    taddress.Text = rs.Fields(2).Value
    rs.MoveNext()
    flag = 0
    tbdate.Text = Date.Now
Loop
If flag = 1 Then
    MsgBox("Enter valid Customer Number")
End If
End Sub

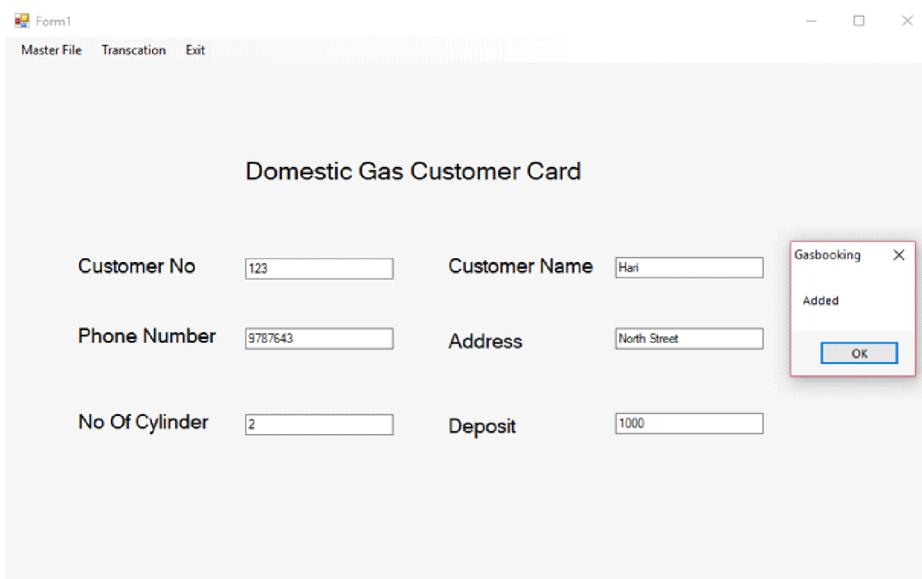
```

```

Private Sub tbdate_LostFocus(ByVal sender As Object, ByVal e As System.EventArgs)
    Handles tbdate.LostFocus
    tddate.Text = Convert.ToDateTime(tbdate.Text).AddDays(5).ToString
    tbamt.Text = 700
End Sub
End Class

```

Output



 trans

Booking Bill report Home

Gas Booking And Delivery Bill

Booking No	8	Customer No	123
Phone Number	9787643	Customer Name	hari
Address	North Street	Booking Date	6/28/2018 11:40:43 AM
Delivery Date	7/3/2018 11:39:39 AM	Bill Amount	700

Report

 Report

Home

Gas Booking Bill Receipt

TNNO 12345 6/30/2018

	Name	Address	Phone No	Bill Date	Delivery Date	Bill Amount
▶	Hari	North Street	9787643	2/2/2018	2/3/2018	700
	raja	North Street	99354534	3/6/2018	3/11/2018	700
	selvi	south street	87651234	4/6/2018	4/11/2018	700
*						

Cylinder Weight : 39.9Kg Signature

4. Aim : To create master and transaction table for BANKaccount TRANSACTION and generate report.

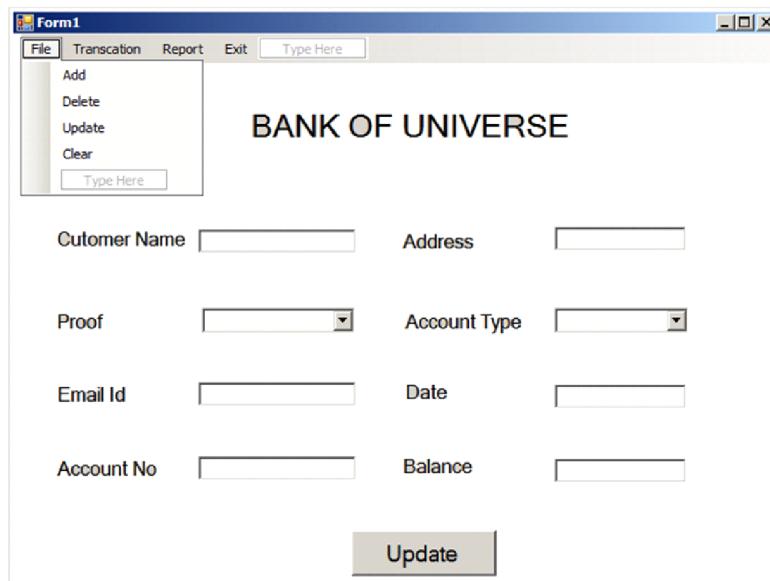
Table Name : **master**

Field Name	Type	Description
accno	Currency	Account Number
cname	Text	Name of the Customer
address	Text	Address of the customer
phno	Currency	Phone Number
email	Text	Customer Email ID
acctype	Text	Account Type
bal	Currency	Account Balance
opdate	Date/Time	Account Opening Date

Table Name : **trans**

Field Name	Type	Description
accno	Currency	Account Number
cname	Text	Name of the Customer
address	Text	Address of the customer
transtype	Text	Transaction Type
tamt	Currency	Transaction Amount
tdate	Date/Time	Transaction Date

Form design



Coding

```

Imports ADODB
Public Class Form1
    Dim con As New ADODB.Connection
    Dim rs As New ADODB.Recordset
    Dim cmd As New ADODB.Command
    Dim flag As Integer = 1
    Dim no As Double
    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles MyBase.Load
        con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data Source=C:\Users\dell\Desktop\
            rdbms\bank\bank\bank.accdb")
        MsgBox(" DB Connected")
        comboacctype.Items.Add("Saving")
        comboacctype.Items.Add("Current")
        comboproof.Items.Add("Aadhar Card")
        comboproof.Items.Add("Voter ID")
        comboproof.Items.Add("PAN Card")
        comboproof.Items.Add("Driving Lincense")
        btupdate.Visible = False
        tdate.Text = Date.Now
        tcustname.Select()
    End Sub

    Private Sub AddToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles AddToolStripMenuItem.Click
        btupdate.Visible = False
        taddress.Enabled = True
        tdate.Enabled = True
        tacccno.Enabled = True
    End Sub

```

```

cmd.ActiveConnection = con
cmd.CommandText = "insert into master values(@accno,@cname,
    @address,@phno,@email,@acctype,@bal,@opdate)"
cmd.Parameters.Item(0).Value = taccno.Text
cmd.Parameters.Item(1).Value = tcustname.Text
cmd.Parameters.Item(2).Value = taddress.Text
cmd.Parameters.Item(3).Value = comboproof.SelectedItem
cmd.Parameters.Item(4).Value = temail.Text
cmd.Parameters.Item(5).Value = comboacctype.SelectedItem
cmd.Parameters.Item(6).Value = tbal.Text
cmd.Parameters.Item(7).Value = tdate.Text
cmd.Execute()
MsgBox(" Record Added ")
End Sub

```

```

Private Sub DeleteToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles DeleteToolStripMenuItem.Click
    btupdate.Visible = False
    taddress.Enabled = True
    tdate.Enabled = True
    taccno.Enabled = True
    disp()
    If flag = 0 Then
        cmd.ActiveConnection = con
        cmd.CommandText = "delete * from master where accno=@accno"
        cmd.Parameters.Item(0).Value = no
        rs = cmd.Execute()
        MsgBox("Record Deleted")
    Else
        MsgBox("Record Not Deleted")
    End If
End Sub

```

```
End If
End Sub
Public Function disp()
    cmd.ActiveConnection = con
    no = Val(InputBox("Enter the Account No"))
    cmd.CommandText = "select * from master where accno=@accno"
    cmd.Parameters.Item(0).Value = no
    rs = cmd.Execute()
    Do Until rs.EOF
        taccno.Text = rs.Fields(0).Value
        tcustname.Text = rs.Fields(1).Value
        taddress.Text = rs.Fields(2).Value
        comboproof.SelectedItem = rs.Fields(3).Value
        temail.Text = rs.Fields(4).Value
        comboacctype.SelectedItem = rs.Fields(5).Value
        tbal.Text = rs.Fields(6).Value
        tdate.Text = rs.Fields(7).Value
        rs.MoveNext()
        flag = 0
    Loop
    If flag = 1 Then
        MsgBox(" Record Not Found")
        btupdate.Visible = False
    End If
End Function
Public Function clr()
    tcustname.Text = ""
    taccno.Text = ""
    taddress.Text = ""
```

```

temail.Text = ""
tbal.Text = ""
tdate.Text = ""
End Function

```

```

Private Sub EditToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles EditToolStripMenuItem.Click
    disp()
    btupdate.Visible = True
    taddress.Enabled = False
    tdate.Enabled = False
    tacno.Enabled = False
End Sub

```

```

Private Sub btupdate_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btupdate.Click
    cmd.ActiveConnection = con
    cmd.CommandText = "update master set
        cname=?,proof=?,email=?,acctype=?,bal=? where accno=?"
    cmd.Parameters.Item(0).Value = tcustname.Text
    cmd.Parameters.Item(1).Value = comboproof.SelectedItem
    cmd.Parameters.Item(3).Value = comboacctype.SelectedItem
    cmd.Parameters.Item(2).Value = temail.Text
    cmd.Parameters.Item(4).Value = Val(tbal.Text)
    cmd.Parameters.Item(5).Value = Val(tacno.Text)
    cmd.Execute()
    MsgBox(" record Updated")
    btupdate.Visible = False
End Sub

```

```
Private Sub UpdateToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e  
As System.EventArgs) Handles UpdateToolStripMenuItem.Click
```

```
    btupdate.Visible = False
```

```
    clr()
```

```
End Sub
```

```
Private Sub TranscationToolStripMenuItem_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles TranscationToolStripMenuItem.Click
```

```
    Me.Hide()
```

```
    trans.Show()
```

```
End Sub
```

```
Private Sub ReportToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e  
As System.EventArgs) Handles ReportToolStripMenuItem.Click
```

```
End Sub
```

```
Private Sub AccountsReportToolStripMenuItem_Click(ByVal sender As  
System.Object, ByVal e As System.EventArgs) Handles  
AccountsReportToolStripMenuItem.Click
```

```
    Me.Hide()
```

```
    Report.Show()
```

```
    Report.Label2.Text = "Account Holder Report"
```

```
    Report.ReportViewer1.Show()
```

```
    Report.ReportViewer2.Hide()
```

```
End Sub
```

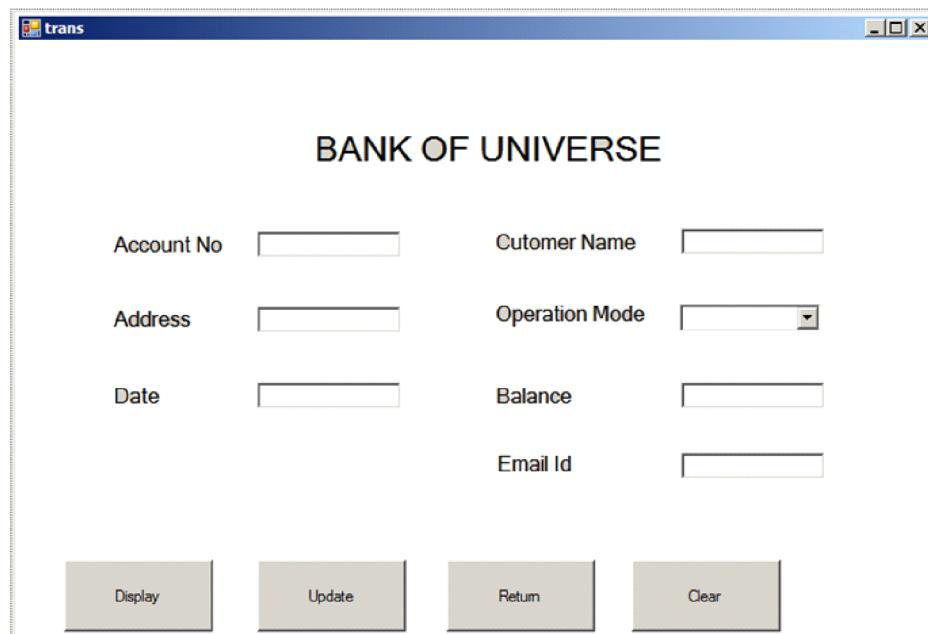
```
Private Sub TranscationToolStripMenuItem1_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles TranscationToolStripMenuItem1.Click
```

```
    Me.Hide()
```

```
    Report.Show()
```

```
Report.Label2.Text = "Transaction Report"  
Report.ReportViewer2.Show()  
Report.ReportViewer1.Hide()  
End Sub  
  
Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles ExitToolStripMenuItem.Click  
End  
End Sub  
  
Private Sub temail_LostFocus(ByVal sender As Object, ByVal e As  
System.EventArgs) Handles temail.LostFocus  
End Sub  
  
Private Sub tdate_LostFocus(ByVal sender As Object, ByVal e As System.EventArgs)  
Handles tdate.LostFocus  
cmd.ActiveConnection = con  
cmd.CommandText = "select max(accno) from master"  
rs = cmd.Execute()  
taccno.Text = Val(rs.Fields(0).Value) + 1  
MsgBox(" Ur Account Number Generated")  
tbal.Text = 500  
End Sub  
End Class
```

Form2 design



Coding

```

Public Class trans

    Dim con As New ADODB.Connection
    Dim rs As New ADODB.Recordset
    Dim cmd As New ADODB.Command
    Dim flag As Integer = 1
    Dim no As Double

    Private Sub trans_Load(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles MyBase.Load
        combmode.Items.Add("Withdraw")
        combmode.Items.Add("Deposit")
        con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
            Source=C:\Users\dell\Desktop\rdbms\bank\bank.accdb")
        tdate.Text = Date.Now
    End Sub

```

```

Private Sub btDisplay_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btDisplay.Click

    no = Val(InputBox("Enter the Account No"))
    disp()
End Sub

Public Function disp()

    cmd.ActiveConnection = con
    cmd.CommandText = "select * from master where accno=@accno"
    cmd.Parameters.Item(0).Value = no
    rs = cmd.ExecuteReader()
    Do Until rs.EOF
        taccno.Text = rs.Fields(0).Value
        tcustname.Text = rs.Fields(1).Value
        taddress.Text = rs.Fields(2).Value
        temail.Text = rs.Fields(4).Value
        tbal.Text = rs.Fields(6).Value
        rs.MoveNext()
        flag = 0
    Loop
    If flag = 1 Then
        MsgBox(" record Not Found")
    End If
End Function

```

```

Private Sub Btupdate_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles Btupdate.Click

    cmd.ActiveConnection = con
    cmd.CommandText = "update master set bal=? where accno=?"
    cmd.Parameters.Item(0).Value = temail.Text

```

```

cmd.Parameters.Item(1).Value = taccno.Text
cmd.ExecuteNonQuery()
cmd.CommandText = "insert into trans
    (accno,cname,address,transtype,tamt,tdate) values
    (@accno,@cname,@address,@transtype,@tamt,tdate)"
cmd.Parameters.Item(0).Value = taccno.Text
cmd.Parameters.Item(1).Value = tcustname.Text
cmd.Parameters.Item(2).Value = taddress.Text
cmd.Parameters.Item(3).Value = combmode.SelectedItem
cmd.Parameters.Item(4).Value = tbal.Text
cmd.Parameters.Item(5).Value = tdate.Text
cmd.ExecuteNonQuery()
MsgBox(" Record Updated")
End Sub

```

```

Private Sub combmode_SelectedIndexChanged(ByVal sender As System.Object,
    ByVal e As System.EventArgs) Handles combmode.SelectedIndexChanged
    Label7.Text = " Current Balance "
    Label6.Text = "Amount"
    temail.Text = tbal.Text
    tbal.Text = 0
End Sub

```

```

Private Sub tbal_LostFocus(ByVal sender As Object, ByVal e As System.EventArgs)
    Handles tbal.LostFocus
    If combmode.SelectedItem = "Deposit" Then
        temail.Text = Val(temail.Text) + Val(tbal.Text)
    Else
        If Val(temail.Text) < Val(tbal.Text) Then
            MsgBox(" Amount Not Sufficient")
        Else

```

```
    temail.Text = Val(temail.Text) - Val(tbal.Text)
End If
End If
End Sub

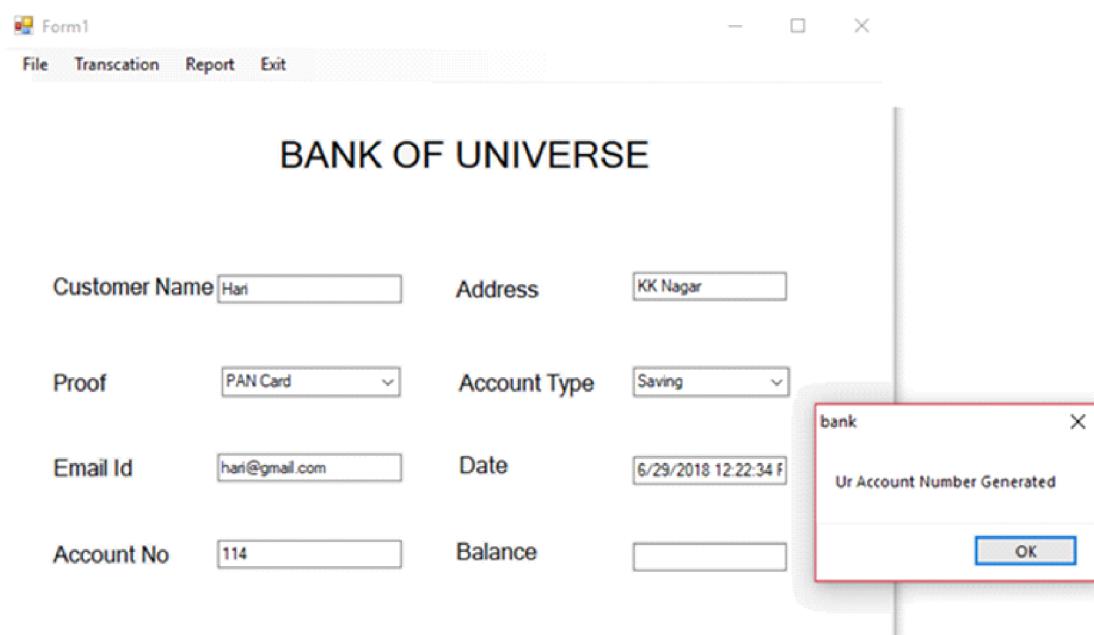
Private Sub btclear_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btclear.Click
    taccno.Text = ""
    tcustname.Text = ""
    taddress.Text = ""
    temail.Text = ""
    tdate.Text = ""
    tbal.Text = ""
End Sub

Private Sub btreturn_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btreturn.Click
    Me.Hide()
    Form1.Show()
End Sub

Private Sub taccno_LostFocus(ByVal sender As Object, ByVal e As
    System.EventArgs) Handles taccno.LostFocus
    no = Val(taccno.Text)
    disp()
End Sub

End Class
```

Output



Report

BANK OF UNIVERSE

Account Holder Report

Opening Date	Account Number	Name	Address	Proof	Acctype	Balance
6/21/2018 11:56:08 AM	111	selvi	TH Road	Aadhar Card	Saving	1400
6/22/2018 12:28:09 PM	112	Raja	North Street	PAN Card	Saving	10500
6/22/2018 1:45:27 PM	113	siva	MH Road	Aadhar Card	Saving	1500
6/29/2018 12:22:34 PM	114	Hari	KK Nagar	PAN Card	Saving	1500

BANK OF UNIVERSE

Transaction Report

Transaction Date	Account Number	Address	Transtype	Amount
3/3/2018 12:00:00 AM	111	North Street	Withdraw	1000
6/22/2018 12:30:44 PM	112	North Street	Deposit	500
6/22/2018 1:46:13 PM	114	MH Road	Deposit	1000
6/28/2018 11:03:25 AM	113	North Street	Deposit	10000

5. Aim: to crate master and transaction table for maintaining the inventory system and generate the corresponding report

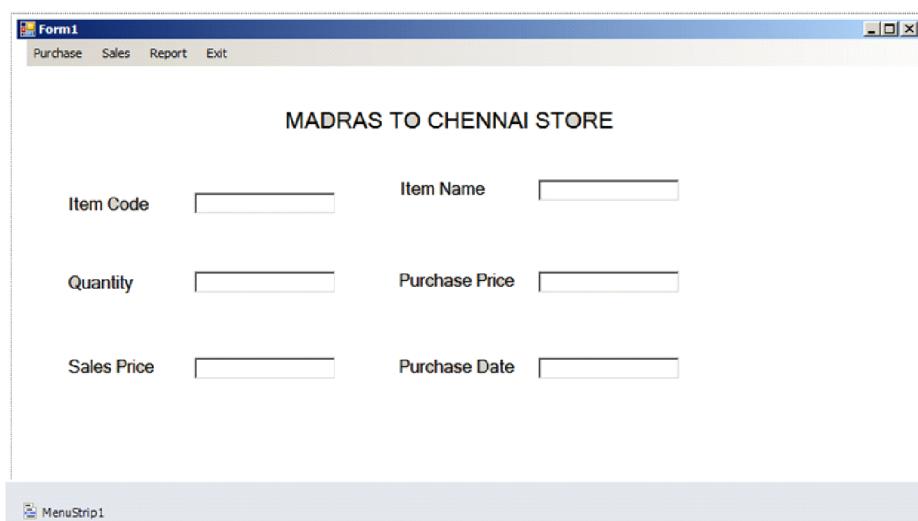
Table Name : master

Field Name	Type	Description
Itemcode	Currency	Item code
Itemname	Text	Name of the item
quantity	Currency	Quantity
pprice	Currency	Purchase Price
sprice	Currency	Sales Price
pdate	Date/Time	Purchase Date

Table Name : trans

Field Name	Type	Description
invno	Currency	Inventory Number
invdate	Date/Time	Inventory Date
custname	Text	Customer Name
address	Text	Address of the customer
phoneno	Currency	Phoneno
itemcode	Currency	Item Number
itemname	Text	Name of the item
unitprice	Currency	Unit
qty	Currency	No of quantity
amount	Currency	Amount
tax	Currency	Tax
totamt	Currency	Total Amount

Form Design



Coding

```

Imports ADODB
Public Class Form1
    Dim con As New ADODB.Connection
    Dim rs As New ADODB.Recordset
    Dim cmd As New ADODB.Command
    Dim flag As Integer = 1
    Dim no As String

    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles MyBase.Load
        con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
            Source=C:\Users\dell\Desktop\rdbms\inventory\inventory\inventory.accdb")
        MsgBox(" Connected")
    End Sub

    Private Sub AddToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles AddToolStripMenuItem.Click
        cmd.ActiveConnection = con
        cmd.CommandText = "insert into master
            values(@itemcode,@itemname,@quantity,@pprice,@sprice,@pdate)"
        cmd.Parameters.Item(0).Value = ticode.Text
        cmd.Parameters.Item(1).Value = tiname.Text
        cmd.Parameters.Item(2).Value = tqqty.Text
        cmd.Parameters.Item(3).Value = tpprice.Text
        cmd.Parameters.Item(4).Value = tsprice.Text
        cmd.Parameters.Item(5).Value = tpdate.Text
        cmd.Execute()
        MsgBox("Records Added Successfully")
        clr()
    End Sub

```

```

Public Function clr()
    ticode.Text = ""
    tiname.Text = ""
    tquty.Text = ""
    tpprice.Text = ""
    tsprice.Text = ""
    tpdate.Text = ""

End Function

Private Sub ViewToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles ViewToolStripMenuItem.Click
    disp()
End Sub

Public Function disp()
    cmd.ActiveConnection = con
    no = InputBox("Enter the Itemname")
    cmd.CommandText = "select * from master where itemname=@itemname"
    cmd.Parameters.Item(0).Value = no
    rs = cmd.Execute()

    Do Until rs.EOF
        ticode.Text = rs.Fields.Item(0).Value
        tiname.Text = rs.Fields.Item(1).Value
        tquty.Text = rs.Fields.Item(2).Value
        tpprice.Text = rs.Fields.Item(3).Value
        tsprice.Text = rs.Fields.Item(4).Value
        tpdate.Text = rs.Fields.Item(5).Value
        flag = 0
        rs.MoveNext()

    Loop

    If flag = 1 Then
        MsgBox(" Record Not Found")
    End If
End Function

```

End If

End Function

```
Private Sub DeleteToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles DeleteToolStripMenuItem.Click
    disp()
    cmd.ActiveConnection = con
    cmd.CommandText = "delete * from master where itemname=@itemname"
    cmd.Parameters.Item(0).Value = no
    cmd.ExecuteNonQuery()
    MsgBox(" Record Deleted Successfully")
    clr()
End Sub
```

```
Private Sub SalesToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles SalesToolStripMenuItem.Click
    Me.Hide()
    Sales.Show()
End Sub
```

```
Private Sub ReportToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles ReportToolStripMenuItem.Click
    Me.Hide()
    report.Show()
End Sub
```

```
Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles ExitToolStripMenuItem.Click
    End
End Sub
End Class
```

6. Aim: To create product and order tables and generate report for purchase order placed

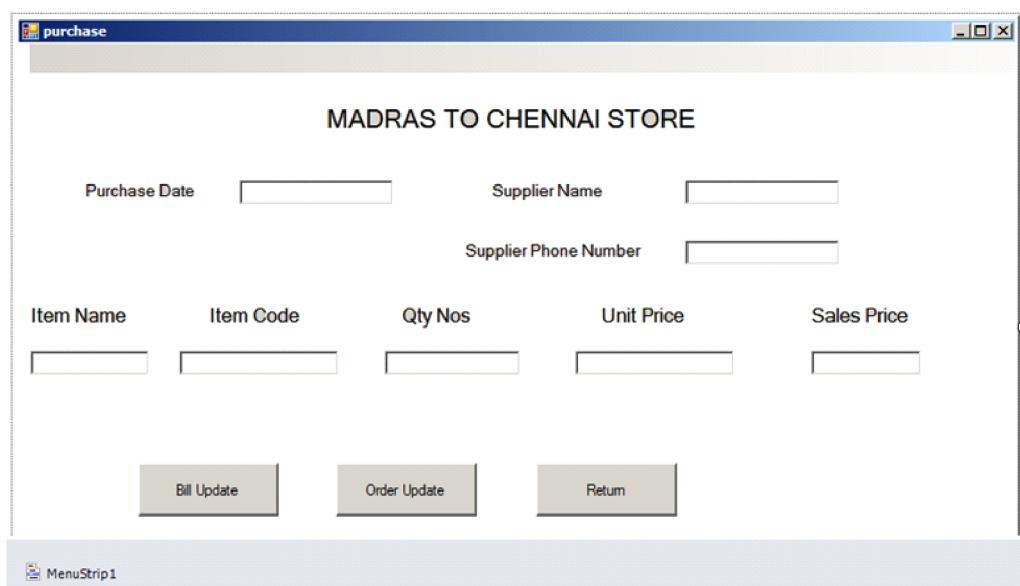
Table Name : product

Field Name	Type	Description
pid	Currency	Purchase ID
pname	Text	Purchase Name
price	Currency	Price
soh	Currency	Stock on hand
pdate	Date/Time	Purchase Date

Table Name : orderdetails

Field Name	Type	Description
bname	Text	Buyer Name
organi	Text	Organisation
add	Text	Address
ordno	Currency	Order number
doord	Date/Time	Date of Order
tpid	Currency	Product ID
tpdesc	Text	Product Description
ordqty	Currency	Order Quantity
Unit	Currency	Unit Price
amount	Currency	Total Amount

Form design



Coding

```

Public Class purchase
    Dim con As New ADODB.Connection
    Dim rs As New ADODB.Recordset
    Dim cmd As New ADODB.Command
    Dim flag As Integer = 1
    Dim no As String

    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles btorder.Click

        End Sub

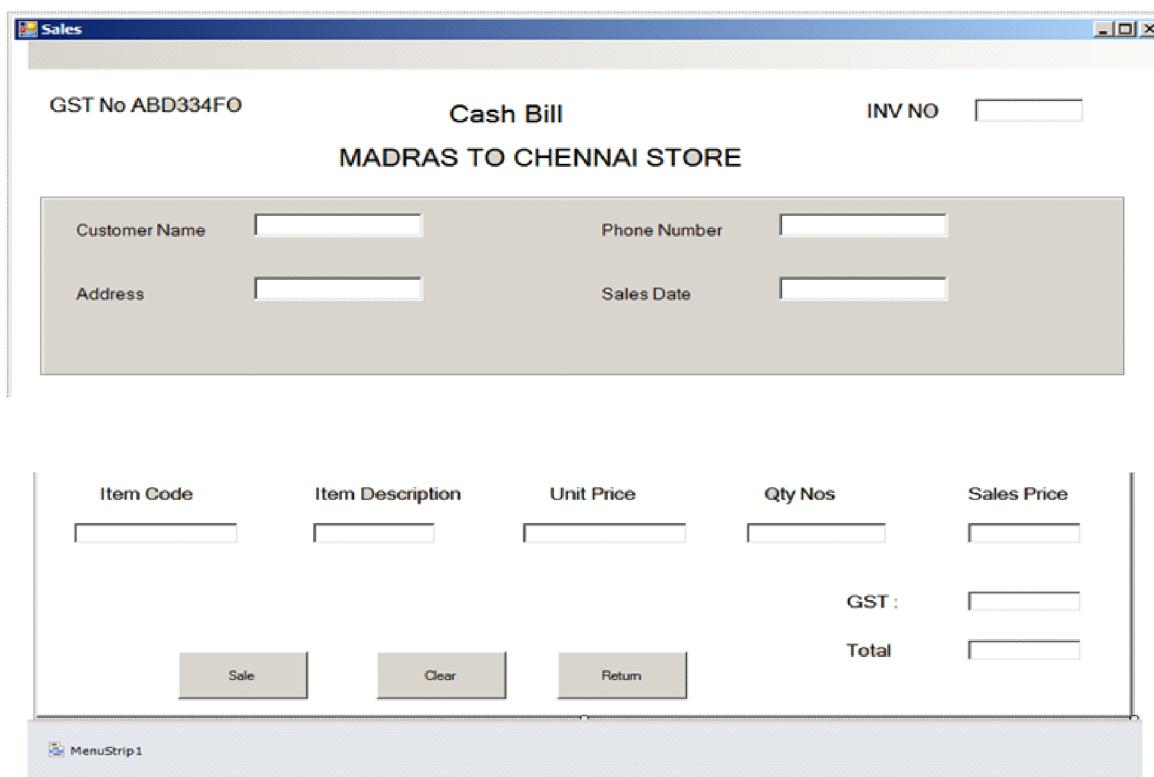
    Private Sub purchase_Load(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles MyBase.Load
        con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
            Source=C:\Users\dell\Desktop\rdbms\inventory\inventory.accdb ")
    End Sub

    Private Sub btbill_Click(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles btbill.Click
        cmd.ActiveConnection = con
        cmd.CommandText = "insert into master
            values(@itemcode,@itemname,@pprice,@sprice,@pdate)"
        cmd.Parameters.Item(0).Value = ticode.Text
        cmd.Parameters.Item(1).Value = tiname.Text
        ' cmd.Parameters.Item(2).Value = tpprice.Text
        cmd.Parameters.Item(3).Value = tsprice.Text
        " cmd.Parameters.Item(4).Value = tpdate.Text
        ' cmd.Execute()
        MsgBox("Records Added Successfully")
    End Sub

```

```
'clr()
End Sub
End Class
```

Sales form design



Sales coding

```
PublicClassSales
Dim con As New ADODB.Connection
Dim rs As New ADODB.Recordset
Dim cmd As New ADODB.Command
Dim flag As Integer = 1
Dim no As String

PrivateSub Sales_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
```

```

Source=C:\Users\dell\Desktop\rdbms\inventory\inventory\inventory.accdb")
EndSub

PrivateSub btsale_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btsale.Click
    cmd.ActiveConnection = con
    If flag = 0 Then
        cmd.CommandText = "insert into trans
            values(@invno,@invdate,@custname,@address,@phoneno,@itemcode,@
            itemname,@unitprice,@qty,@amount,@tax,@totamt)"
        cmd.Parameters.Item(0).Value = tinvno.Text
        cmd.Parameters.Item(1).Value = tsdate.Text
        cmd.Parameters.Item(2).Value = tcname.Text
        cmd.Parameters.Item(3).Value = taddress.Text
        cmd.Parameters.Item(4).Value = tphno.Text
        cmd.Parameters.Item(5).Value = ticode.Text
        cmd.Parameters.Item(6).Value = tiname.Text
        cmd.Parameters.Item(7).Value = tunit.Text
        cmd.Parameters.Item(8).Value = tqty.Text
        cmd.Parameters.Item(9).Value = tspice.Text
        cmd.Parameters.Item(10).Value = tgst.Text
        cmd.Parameters.Item(11).Value = ttot.Text
        cmd.Execute()
        MsgBox(" Sales Successfully")
        clr()
    EndIf
EndSub

PublicFunction clr()
    tinvno.Text = ""
    tsdate.Text = ""

```

```

tcname.Text = ""
taddress.Text = ""
tphno.Text = ""
ticode.Text = ""
tiname.Text = ""
tunit.Text = ""
tqty.Text = ""
tsprice.Text = ""
tgst.Text = ""
ttot.Text = ""

EndFunction

PrivateSub btclear_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btclear.Click
    clr()
EndSub

PrivateSub btreturn_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btreturn.Click
    Me.Hide()
    Form1.Show()
EndSub

PrivateSub tqty_LostFocus(ByVal sender As Object, ByVal e As System.EventArgs)
    Handles tqty.LostFocus
    cmd.ActiveConnection = con
    cmd.CommandText = "select quantity from master where itemcode=@itemcode"
    cmd.Parameters.Item(0).Value = ticode.Text
    rs = cmd.Execute()
    DoUntil rs.EOF

```

```

If Val(tqty.Text) < Val(rs.Fields.Item(0).Value) Then
    cmd.CommandText = "update master set quantity=? where itemcode=?"
    cmd.Parameters.Item(0).Value = Val(rs.Fields.Item(0).Value) - Val(tqty.Text)
    cmd.Parameters.Item(1).Value = ticode.Text
    cmd.ExecuteNonQuery()
    tsprice.Text = Val(tunit.Text) * Val(tqty.Text)
    tgst.Text = (Val(tsprice.Text) * 5) / 100
    ttot.Text = Val(tsprice.Text) + Val(tgst.Text)
    flag = 0
Else
    MsgBox("Stock not available")
    MsgBox("Stock on Hand "& Val(rs.Fields.Item(0).Value))

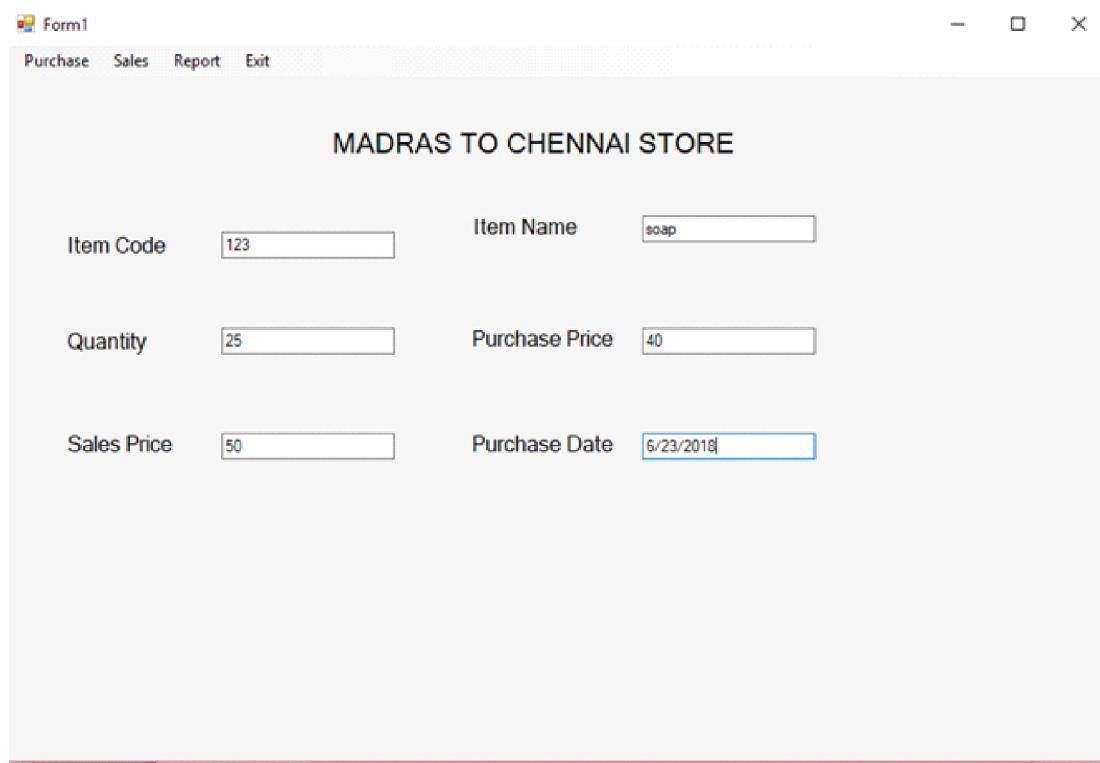
EndIf
rs.MoveNext()
Loop
EndSub

PrivateSub ticode_LostFocus(ByVal sender As Object, ByVal e As System.EventArgs)
    Handles ticode.LostFocus
    cmd.ActiveConnection = con
    cmd.CommandText = "select itemname,sprice from master where
        itemcode=@itemcode"
    cmd.Parameters.Item(0).Value = ticode.Text
    rs = cmd.ExecuteReader()
DoUntil rs.EOF
    tiname.Text = rs.Fields(0).Value
    tunit.Text = rs.Fields(1).Value
    flag = 0
    rs.MoveNext()

```

```
Loop  
If flag = 1 Then  
    MsgBox(" Invalid Item Code")  
EndIf  
EndSub  
EndClass
```

Output



Sales

GST No ABD334FO Cash Bill INV NO 234

MADRAS TO CHENNAI STORE

Customer Name	Raja	Phone Number	98765444	inventory
Address	Ashok Nagar	Sales Date	6/12/2018	Sales Successfully
				OK
Item Code	Item Description	Unit Price	Qty Nos	Sales Price
123	soap	50	2	100
				GST : 5
			Total	105
Sale		Clear	Return	

Report

report

Home

MADRAS TO CHENNAI STORE

	ItemCode	ItemName	UnitPrice	Quantity	Amount
▶	112	soap	50	5	250
	111	pen	50	1	50
*	113	oil	50	2	100

7. Aim : To create table for employee personal and salary details and generate report for payroll

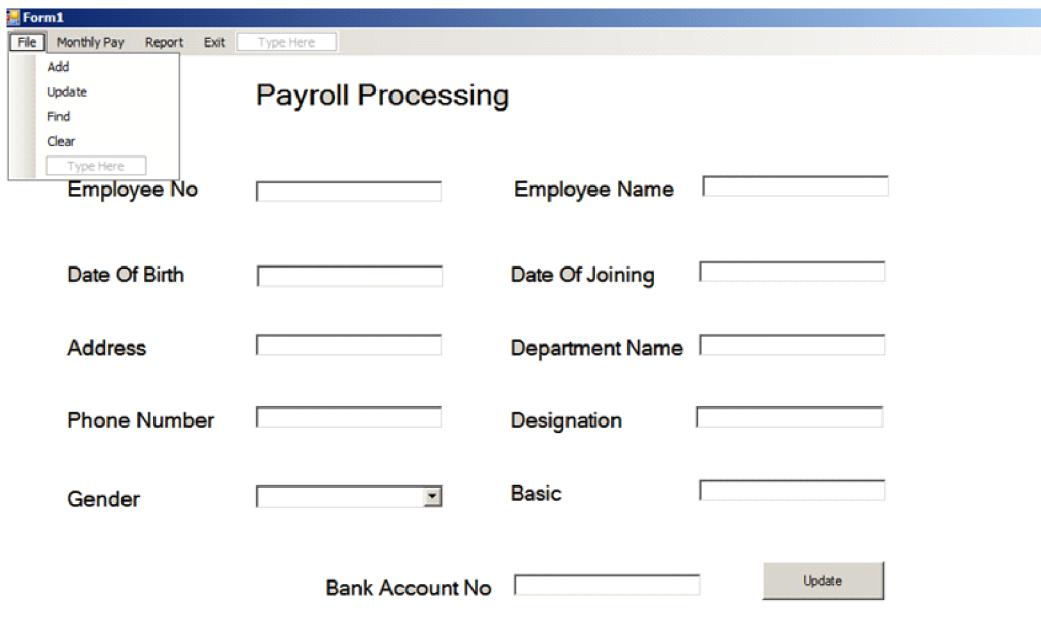
Table Name : emp

Field Name	Type	Description
empno	Currency	Employee Number
empname	Text	Employee Name
address	Text	Address of the employee
phone	Currency	Phone Number
desig	Text	Designation
department	Text	Name of the department
dob	Date/Time	Date of Birth
doj	Date/Time	Date of Joining
gender	Text	Gender
baccno	Currency	Bank Account No
basic	Currency	Basic Salary

Table Name : pay

Field Name	Type	Description
empno	Currency	Employee Number
empname	Text	Employee Name
desig	Text	Designation
phno	Currency	Phone Number
Basic	Currency	Basic Salary
Hra	Currency	HRA
Da	Currency	DA
Pf	Currency	PF
Gpay	Currency	Gross Pay
Netpay	Currency	Netpay
Cmonth	Currency	Month of Pay bill

Form Design



Coding

```

Imports ADODB
Public Class combodesig
    Dim con As New ADODB.Connection
    Dim rs As New ADODB.Recordset
    Dim cmd As New ADODB.Command
    Dim flag As Integer = 1
    Dim no As Double
    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles MyBase.Load
        con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
            Source=C:\Users\dell\Desktop\rdbms\payroll\payroll\payroll.accdb")
        MsgBox(" Connected")
        combosex.Items.Add("Male")
        combosex.Items.Add("Female")
    End Sub
End Class

```

```
btupdate.Visible = False  
cmd.ActiveConnection = con  
cmd.CommandText = "select max(empno) from emp"  
rs = cmd.Execute  
tempno.Text = (rs.Fields(0).Value + 1)  
End Sub
```

```
Private Sub AddToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles AddToolStripMenuItem.Click  
btupdate.Visible = False  
cmd.ActiveConnection = con  
cmd.CommandText = "insert into emp values (@empno, @empname, @address,  
@phone, @desig, @department, @dob, @doj, @gender, @baccno, @basic)"  
cmd.Parameters.Item(0).Value = tempno.Text  
cmd.Parameters.Item(1).Value = tempname.Text  
cmd.Parameters.Item(2).Value = taddress.Text  
cmd.Parameters.Item(3).Value = tpho.Text  
cmd.Parameters.Item(4).Value = tdesig.Text  
cmd.Parameters.Item(5).Value = tdept.Text  
cmd.Parameters.Item(6).Value = tdob.Text  
cmd.Parameters.Item(7).Value = tdoj.Text  
cmd.Parameters.Item(8).Value = combosex.SelectedItem  
cmd.Parameters.Item(9).Value = tbank.Text  
cmd.Parameters.Item(10).Value = tbasic.Text  
cmd.Execute()  
MsgBox(" Records Added Successfully")  
End Sub
```

```

Private Sub ClearToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles ClearToolStripMenuItem.Click
    btupdate.Visible = False
    tempno.Text = ""
    tempname.Text = ""
    taddress.Text = ""
    tpho.Text = ""
    tdept.Text = ""
    tdob.Text = ""
    tdoj.Text = ""
    tbank.Text = ""
    tbasic.Text = ""
End Sub

```

```

Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ExitToolStripMenuItem.Click
End
End Sub

```

```

Private Sub FindToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles FindToolStripMenuItem.Click
    btupdate.Visible = False
    disp()
End Sub
Public Function disp()
    cmd.ActiveConnection = con
    no = Val(InputBox("Enter the Employee No "))
    cmd.CommandText = "select * from emp where empno=@empno"
    cmd.Parameters.Item(0).Value = no
    rs = cmd.Execute()

```

```

Do Until rs.EOF
    tempno.Text = rs.Fields(0).Value
    tempname.Text = rs.Fields(1).Value
    taddress.Text = rs.Fields(2).Value
    tpho.Text = rs.Fields(3).Value
    tdesig.Text= rs.Fields(4).Value
    tdept.Text = rs.Fields(5).Value
    tdob.Text = rs.Fields(6).Value
    tdoj.Text = rs.Fields(7).Value
    combosex.SelectedItem = rs.Fields(8).Value
    tbank.Text = rs.Fields(9).Value
    tbasic.Text = rs.Fields(10).Value
    flag = 0
    rs.MoveNext()
Loop
If flag = 1 Then
    MsgBox(" Record Not Found")
End If
End Function

```

```

Private Sub UpdateToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles UpdateToolStripMenuItem.Click
    disp()
    btupdate.Visible = True
End Sub

```

```

Private Sub FileToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles FileToolStripMenuItem.Click
End Sub

```

```

Private Sub btupdate_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btupdate.Click
    cmd.ActiveConnection = con
    cmd.CommandText = "update emp set
        address=?,phone=?,desig=?,department=?,dob=?,doj=?,gender=?,baccno=?,basic=?
        where empno=?"
    cmd.Parameters.Item(0).Value = taddress.Text
    cmd.Parameters.Item(1).Value = tpho.Text
    cmd.Parameters.Item(2).Value = tdesig.Text
    cmd.Parameters.Item(3).Value = tdept.Text
    cmd.Parameters.Item(4).Value = tdob.Text
    cmd.Parameters.Item(5).Value = tdoj.Text
    cmd.Parameters.Item(6).Value = combosex.SelectedItem
    cmd.Parameters.Item(7).Value = tbank.Text
    cmd.Parameters.Item(8).Value = tbasic.Text
    cmd.Parameters.Item(9).Value = tempno.Text
    cmd.Execute()
    MsgBox(" Records Updated Successfully")
End Sub

```

```

Private Sub MonthlyPayToolStripMenuItem_Click(ByVal sender As System.Object,
    ByVal e As System.EventArgs) Handles MonthlyPayToolStripMenuItem.Click
    Me.Hide()
    monthpay.Show()
End Sub

```

```

Private Sub ReportToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles ReportToolStripMenuItem.Click
End Sub

```

```

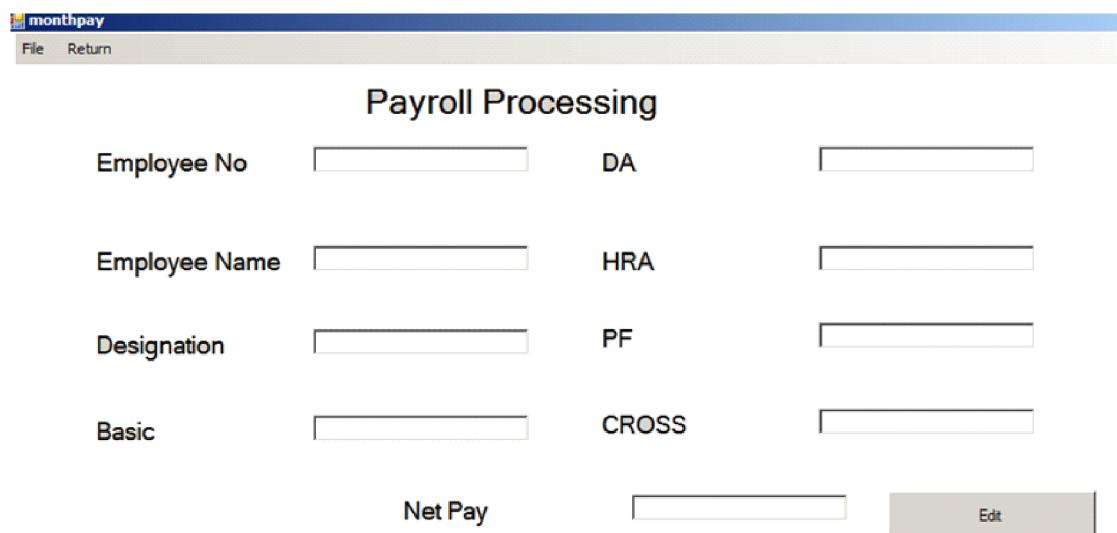
Private Sub EmployeeReportToolStripMenuItem_Click(ByVal sender As
    System.Object, ByVal e As System.EventArgs) Handles
    EmployeeReportToolStripMenuItem.Click
    Me.Hide()
    Report.Show()
    Report.ReportViewer1.Show()
    Report.ReportViewer2.Hide()
End Sub

Private Sub PayReportToolStripMenuItem_Click(ByVal sender As System.Object,
    ByVal e As System.EventArgs) Handles PayReportToolStripMenuItem.Click
    Me.Hide()
    Report.Show()
    Report.ReportViewer1.Hide()
    Report.ReportViewer2.Show()
End Sub

End Class

```

Form design



Coding

```

Imports ADODB
Public Class monthpay
    Dim con As New ADODB.Connection
    Dim rs As New ADODB.Recordset
    Dim cmd1 As New ADODB.Command
    Dim flag As Integer = 1
    Dim no As Double

    Private Sub ReturnToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ReturnToolStripMenuItem.Click
        Me.Hide()
        combodesig.Show()
    End Sub

    Private Sub AddRecordToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles AddRecordToolStripMenuItem.Click
        tempno.Enabled = True
        tempname.Enabled = True
        cmd1.ActiveConnection = con
        cmd1.CommandText = "insert into pay
                           values(@Empno,@Empname,@desig,@basic,
                                  @hra,@da,@pf,@gpay,@netpay,@cmonth)"
        cmd1.Parameters.Item(0).Value = tempno.Text
        cmd1.Parameters.Item(1).Value = tempname.Text
        cmd1.Parameters.Item(2).Value = tdesig.Text
        cmd1.Parameters.Item(3).Value = tbasic.Text
        cmd1.Parameters.Item(4).Value = thra.Text
        cmd1.Parameters.Item(5).Value = tda.Text
        cmd1.Parameters.Item(6).Value = tpf.Text
    End Sub

```

```

cmd1.Parameters.Item(7).Value = tcross.Text
cmd1.Parameters.Item(8).Value = tnet.Text
cmd1.Parameters.Item(9).Value = Date.Now
cmd1.Execute()
MsgBox("Records Added Successfully ")
btedit.Visible = False
clr()
End Sub

```

```

Private Sub DeleteRecordToolStripMenuItem_Click(ByVal sender As System.Object,
    ByVal e As System.EventArgs) Handles DeleteRecordToolStripMenuItem.Click
no = Val(InputBox("Enter the Employee No"))
disp()
tempno.Enabled = True
tempname.Enabled = True
If flag = 0 Then
    cmd1.CommandText = "delete * from pay where Empno=@empno"
    cmd1.Parameters.Item(0).Value = no
    cmd1.Execute()
    MsgBox(" Records Deleted Successfully")
    clr()
End If
btedit.Visible = False
End Sub

```

```

Private Sub EditRecordToolStripMenuItem_Click(ByVal sender As System.Object,
    ByVal e As System.EventArgs) Handles EditRecordToolStripMenuItem.Click
no = Val(InputBox("Enter the Employee No"))
disp()
tempno.Enabled = False

```

```

tempname.Enabled = False
btedit.Visible = True
End Sub

Public Function disp()
    cmd1.ActiveConnection = con
    cmd1.CommandText = "select * from pay where Empno=@empno"
    cmd1.Parameters.Item(0).Value = no
    rs = cmd1.Execute()
    Do Until rs.EOF
        tempno.Text = rs.Fields(0).Value
        tempname.Text = rs.Fields(1).Value
        tdesig.Text = rs.Fields(2).Value
        tbasic.Text = rs.Fields(3).Value
        thra.Text = rs.Fields(4).Value
        tda.Text = rs.Fields(5).Value
        tpf.Text = rs.Fields(6).Value
        tcross.Text = rs.Fields(7).Value
        tnet.Text = rs.Fields(8).Value
        rs.MoveNext()
        flag = 0
    Loop
    If flag = 1 Then
        MsgBox(" Record Not Found")
    End If
End Function

Private Sub btedit_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btedit.Click
    cmd1.ActiveConnection = con
    cmd1.CommandText = "update pay set
        desig=?,basic=?,hra=?,da=?,pf=?,gpay=?,netpay=? where empno=?"

```

```

cmd1.Parameters.Item(0).Value = tdesig.Text
cmd1.Parameters.Item(1).Value = tbasic.Text
cmd1.Parameters.Item(2).Value = thra.Text
cmd1.Parameters.Item(3).Value = tda.Text
cmd1.Parameters.Item(4).Value = tpf.Text
cmd1.Parameters.Item(5).Value = tcross.Text
cmd1.Parameters.Item(6).Value = tnet.Text
cmd1.Parameters.Item(7).Value = tempno.Text
cmd1.Execute()
MsgBox(" Records Edited Successfully")
btedit.Visible = False
End Sub

```

```

Private Sub monthpay_Load(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles MyBase.Load
    con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
        Source=C:\Users\dell\Desktop\rdbms\payroll\payroll.accdb")
    tempno.Enabled = True
    tempname.Enabled = True
    btedit.Visible = False
    tempname.Select()
End Sub
Public Function clr()
    tempname.Text = ""
    tempno.Text = ""
    tdesig.Text = ""
    tbasic.Text = ""
    tda.Text = ""
    thra.Text = ""
    tpf.Text = ""

```

```

tcross.Text = ""
tnet.Text = ""
End Function

Private Sub tempno_LostFocus(ByVal sender As Object, ByVal e As
    System.EventArgs) Handles tempno.LostFocus
    cmd1.ActiveConnection = con
    cmd1.CommandText = "select * from emp where Empno=@empno"
    cmd1.Parameters.Item(0).Value = tempno.Text
    rs = cmd1.Execute()
    Do Until rs.EOF
        tempno.Text = rs.Fields(0).Value
        tempname.Text = rs.Fields(1).Value
        tdesig.Text = rs.Fields(2).Value
        tbasic.Text = rs.Fields(3).Value
        tda.Text = Val(tbasic.Text) * 0.1
        thra.Text = Val(tbasic.Text) * 0.05
        tpf.Text = Val(tbasic.Text) * 0.02
        tcross.Text = Val(tbasic.Text) + Val(tda.Text) + Val(thra.Text)
        tnet.Text = Val(tbasic.Text) + Val(tda.Text) + Val(thra.Text) - Val(tpf.Text)
        tempno.Enabled = True
        tempname.Enabled = True
        rs.MoveNext()
        flag = 0
    Loop
    If flag = 1 Then
        MsgBox(" Record Not Found")
    End If
End Sub

End Class

```

Output

Form1

File Monthly Pay Report Exit

Payroll Processing

Employee No	<input type="text" value="223"/>	Employee Name	<input type="text" value="Ravi"/>
Date Of Birth	<input type="text" value="2/02/1990"/>	Date Of Joining	<input type="text" value="5/03/2003"/>
Address	<input type="text" value="KK Nagar,Chennai"/>	Department Name	<input type="text" value="Tamil"/>
Phone Number	<input type="text" value="98434424"/>	Designation	<input type="text" value="Professor"/>
Gender	<input type="text" value="Male"/>	Basic	<input type="text" value="20000"/>
Bank Account No <input type="text" value="104354548"/>			

monthpay

File Return

- Add Record
- Delete Record
- Edit Record

Payroll Processing

Employee No	<input type="text" value="111"/>	DA	<input type="text" value="124345.3"/>
Employee Name	<input type="text" value="ravi"/>	HRA	<input type="text" value="62172.65"/>
Designation	<input type="text" value="North street"/>	PF	<input type="text" value="24869.06"/>
Basic	<input type="text" value="1243453"/>	CROSS	<input type="text" value="1429970.95"/>
Net Pay <input type="text" value="1405101.89"/>			

PayRoll Report

The screenshot shows a software window titled "Report" with a sub-titile "Home". The main title of the report is "Payroll Processing". The report displays a table with the following data:

Empno	Empname	Designation	Basic	Net Pay	Credit Month
111	ravi	North street	1243453	1405101.89	11/18/2018 9:33:33 AM
222	selvi	main road	345455	3903646.02	11/18/2018 9:34:30 AM

Employee Report

The screenshot shows a software window titled "Report" with a sub-titile "Home". The main title of the report is "Payroll Processing". The report displays a table with the following data:

Empno	Empname	Designation	Department	Doj	Basic
111	ravi	Reader	computer	3/5/2000 12:00:00 AM	22424
222	selvi	Professors	maths	4/4/2009 12:00:00 AM	45545

8. Aim: To Create a question and student database for conducting quiz and generate report for score details of the students

Table Name : quest

Field Name	Type	Description
Qno	Currency	Question Number
Question	Text	Question
Ans	Text	Answer for question
ch1	Text	Choice 1
ch2	Text	Choice 2
ch3	Text	Choice 3
ch4	Text	Choice 4

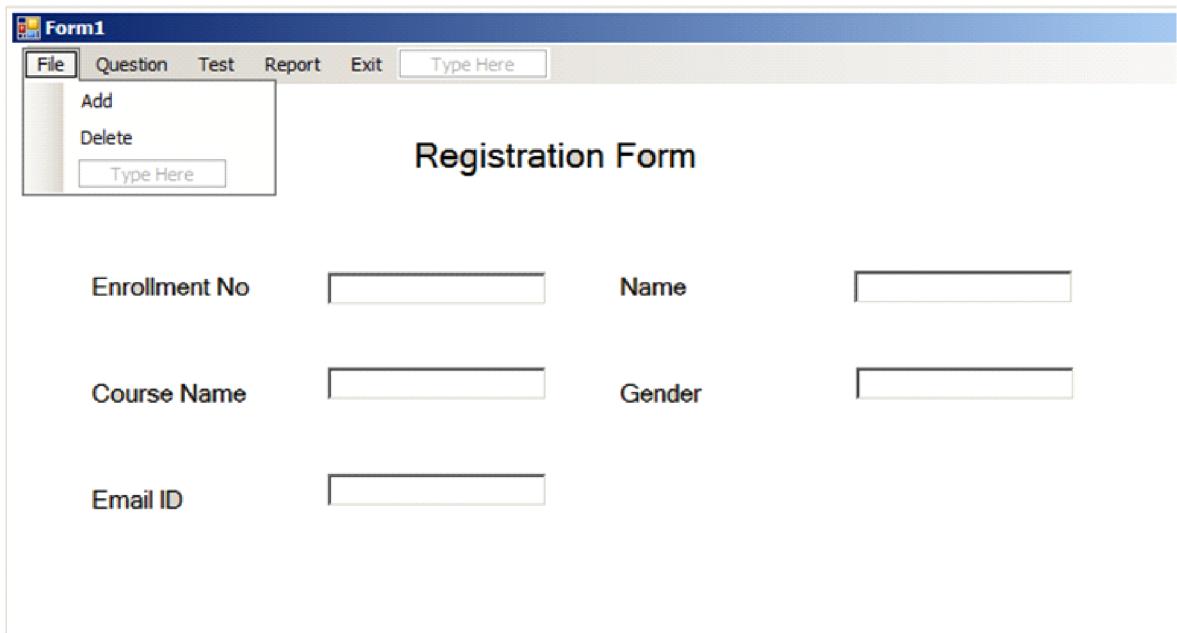
Table Name : student

Field Name	Type	Description
enrno	Currency	Enrollment Number
sname	Text	Student Name
cname	Text	Course Name
sex	Text	Sex
emailed	Text	emailID

Table Name : test

Field Name	Type	Description
enrno	Currency	Enrollment Number
sname	Text	Student Name
correct	Currency	No of correct
wrong	Currency	No of wrong
total	Currency	Total Marks

Form Design



Coding

```

Imports ADODB
PublicClassForm1
Dim con AsNew ADODB.Connection
Dim rs AsNew ADODB.Recordset
Dim cmd AsNew ADODB.Command
Dim flag AsInteger = 1
Dim noAsString
PrivateSub Form1_Load(ByVal senderAs System.Object, ByVal e As
    System.EventArgs) Handles MyBase.Load
    con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
        Source=C:\Users\dell\Desktop\rdbms\quiz\quiz\quiz.accdb")
    MsgBox("Connected")
EndSub

```

```

PrivateSub AddToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles AddToolStripMenuItem.Click
    cmd.ActiveConnection = con
    cmd.CommandText = "insert into student
        values(@Enrno,@sname,@cname,@sex,@emailid)"
    cmd.Parameters.Item(0).Value = tenrno.Text
    cmd.Parameters.Item(1).Value = tname.Text
    cmd.Parameters.Item(2).Value = tcname.Text
    cmd.Parameters.Item(3).Value = tgender.Text
    cmd.Parameters.Item(4).Value = temai.Text
    cmd.Execute()
    MsgBox(" Record Added Successfully")
    clr()
EndSub

```

```

PrivateSub DeleteToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles DeleteToolStripMenuItem.Click
    cmd.ActiveConnection = con
    no = InputBox("Enter the Student Name")
    cmd.CommandText = "select * from student where sname=@sname"
    cmd.Parameters.Item(0).Value = no
    rs = cmd.Execute()
    DoUntil rs.EOF
        cmd.CommandText = "delete * from student where sname=@sname"
        cmd.Parameters.Item(0).Value = no
        rs = cmd.Execute()
        flag = 0
        MsgBox(" Record Deleted Successfully")
        clr()
Loop

```

```
If flag = 1 Then
    MsgBox(" InVaild Student Name")
EndIf
EndSub
PublicFunction clr()
    tenrno.Text = ""
    tcname.Text = ""
    tgender.Text = ""
    temai.Text = ""
EndFunction

PrivateSub TestToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles TestToolStripMenuItem.Click
    Me.Hide()
    test.Show()
EndSub

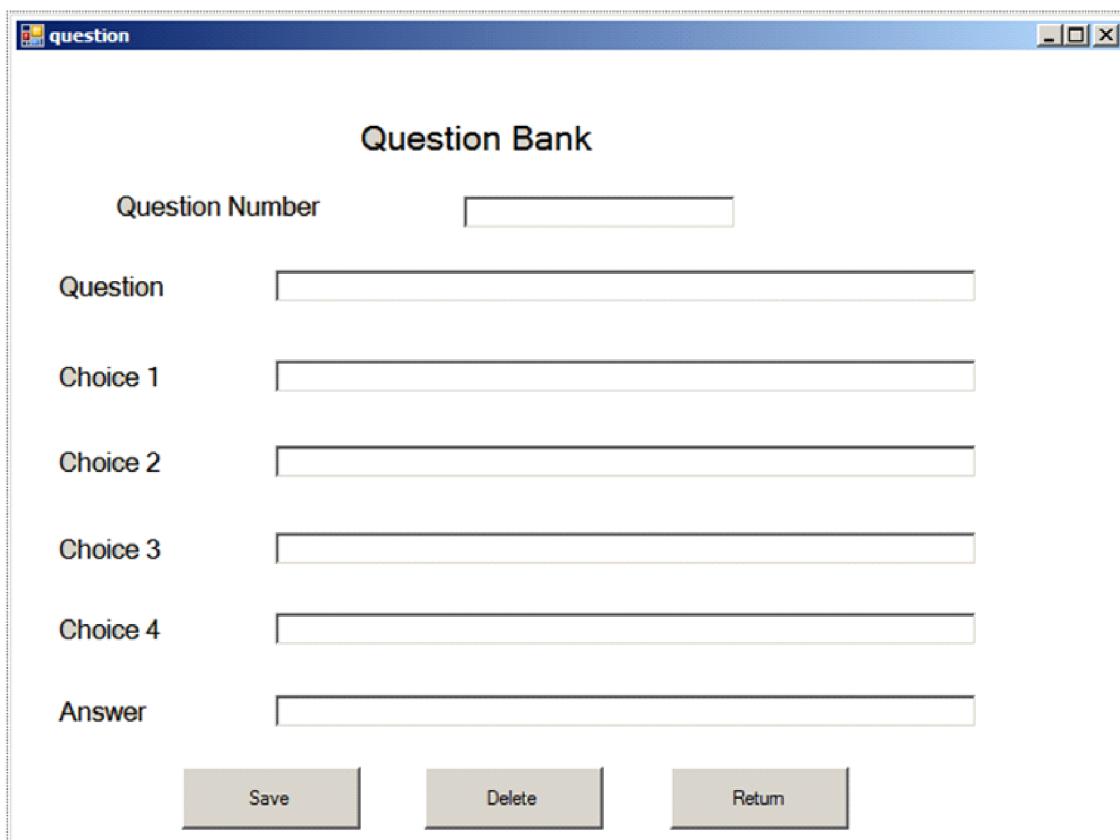
PrivateSub QuestionToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles QuestionToolStripMenuItem.Click
    Me.Hide()
    question.Show()
EndSub

PrivateSub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles ExitToolStripMenuItem.Click
End
EndSub
```

100

```
Private Sub ReportToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles ReportToolStripMenuItem.Click  
    Me.Hide()  
    Report.Show()  
End Sub  
End Class
```

Question coding



Question coding

```
Public Class question  
Dim con As New ADODB.Connection  
Dim rs As New ADODB.Recordset
```

```

Dim cmd AsNew ADODB.Command
Dim flag AsInteger = 1
Dim no AsString
PrivateSub question_Load(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles MyBase.Load
    con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
        Source=C:\Users\dell\Desktop\rbms\quiz\quiz\quiz.accdb")
EndSub

PrivateSub btsave_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btsave.Click
    cmd.ActiveConnection = con
    cmd.CommandText = "insert into quest
        values(@qno,@question,@ans,@ch1,@ch2,@ch3,@ch4)"
    cmd.Parameters.Item(0).Value = tqno.Text
    cmd.Parameters.Item(1).Value = tquest.Text
    cmd.Parameters.Item(2).Value = tans.Text
    cmd.Parameters.Item(3).Value = tch1.Text
    cmd.Parameters.Item(4).Value = tch2.Text
    cmd.Parameters.Item(5).Value = tch3.Text
    cmd.Parameters.Item(6).Value = tch4.Text
    cmd.Execute()
    MsgBox(" Question Added Successfully")
EndSub

PrivateSub btdelete_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btdelete.Click
    cmd.ActiveConnection = con
    Dim n AsInteger = Val(InputBox("Enter the question number"))
    cmd.CommandText = "select * from quest where qno=?"
    cmd.Parameters.Item(0).Value = n

```

```

rs = cmd.Execute()

DoUntil rs.EOF
    tqno.Text = rs.Fields(0).Value
    tquest.Text = rs.Fields(1).Value
    tans.Text = rs.Fields(2).Value
    tch1.Text = rs.Fields(3).Value
    tch2.Text = rs.Fields(4).Value
    tch3.Text = rs.Fields(5).Value
    tch4.Text = rs.Fields(6).Value
    cmd.CommandText = "delete * from quest where qno=?"
    cmd.Parameters.Item(0).Value = n
    cmd.Execute()
    rs.MoveNext()
    clr()
    flag = 0
    MsgBox(" Question Deleted Successfully")

Loop

If flag = 1 Then
    MsgBox(" Enter the Vaild Question Number")
EndIf

EndSub

PublicFunction clr()
    tqno.Text = ""
    tquest.Text = ""
    tans.Text = ""
    tch1.Text = ""
    tch2.Text = ""
    tch3.Text = ""
    tch4.Text = ""

EndFunction

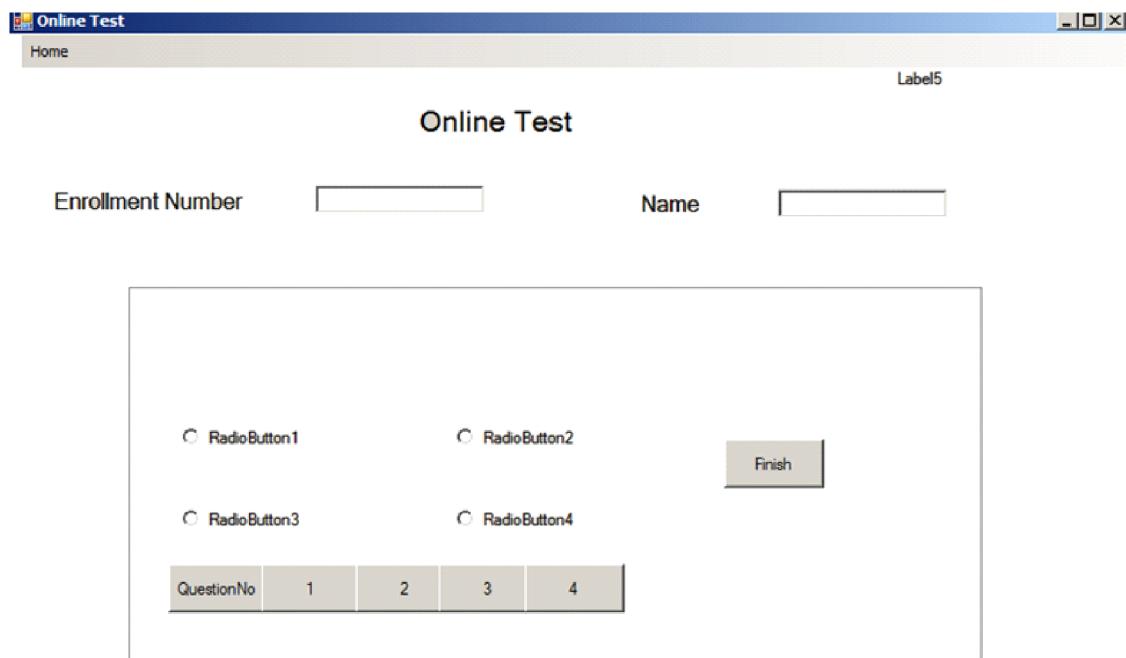
```

```

PrivateSub btreturn_Click(ByVal senderAs System.Object, ByVal e As
    System.EventArgs) Handles btreturn.Click
    Me.Hide()
    Form1.Show()
EndSub
EndClass

```

Online test form



Coding

```

PublicClass test
Dim con As New ADODB.Connection
Dim rs As New ADODB.Recordset
Dim cmd As New ADODB.Command
Dim flag As Integer = 1
Dim no As String
Dim corr, wrng, t As Integer

```

```

PrivateSub bt1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    Handles bt1.Click, bt2.Click, bt3.Click, bt4.Click
    RadioButton1.Visible = True
    RadioButton2.Visible = True
    RadioButton3.Visible = True
    RadioButton4.Visible = True
    cmd.ActiveConnection = con
    cmd.CommandText = "select * from quest where qno=?"
    cmd.Parameters.Item(0).Value = sender.text
    rs = cmd.ExecuteReader()
    DoUntil rs.EOF
        qno.Text = rs.Fields(0).Value
        quest.Text = rs.Fields(1).Value
        RadioButton1.Text = rs.Fields(3).Value
        RadioButton2.Text = rs.Fields(4).Value
        RadioButton3.Text = rs.Fields(5).Value
        RadioButton4.Text = rs.Fields(6).Value
        rs.MoveNext()
    Loop
EndSub

```

```

PrivateSub HomeToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles HomeToolStripMenuItem.Click
    Me.Hide()
    Form1.Show()
EndSub

```

```

PrivateSub btsave_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs)
EndSub

```

```

PrivateSub test_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
    Handles MyBase.Load
    con.Open("Provider=Microsoft.ACE.OLEDB.12.0;Data
        Source=C:\Users\dell\Desktop\rdbms\quiz\quiz\quiz.accdb")
    Timer1.Start()
    t = 0
    corr = 0
    wrng = 0
    time.Text = 200
    RadioButton1.Visible = False
    RadioButton2.Visible = False
    RadioButton3.Visible = False
    RadioButton4.Visible = False
EndSub

PublicFunction disp()
    MsgBox(" Time Out")
    bt1.Enabled = False
    bt2.Enabled = False
    bt3.Enabled = False
    bt4.Enabled = False
EndFunction

```

```

PrivateSub Timer1_Tick(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles Timer1.Tick
    time.Text = Val(time.Text) - 1
    If Val(time.Text) <= 0 Then
        Timer1.Stop()
        disp()
    If corr = 3 Then

```

```

wrng = 1
ElseIf corr = 2 Then
    wrng = 2
ElseIf corr = 1 Then
    wrng = 3
Else
    wrng = 4
EndIf
EndIf
EndSub

```

```

PrivateSub btfinish_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btfinish.Click
    cmd.ActiveConnection = con
    cmd.CommandText = "insert into test
        values(@enrno,@sname,@correct,@wrong,@total)"
    cmd.Parameters.Item(0).Value = tenrno.Text
    cmd.Parameters.Item(1).Value = tname.Text
    cmd.Parameters.Item(2).Value = corr.ToString
    cmd.Parameters.Item(3).Value = wrng.ToString
    cmd.Parameters.Item(4).Value = (Val(corr.ToString) * 25)
    cmd.Execute()
    MsgBox("Marks Updated Successfully")
    Timer1.Stop()
EndSub

```

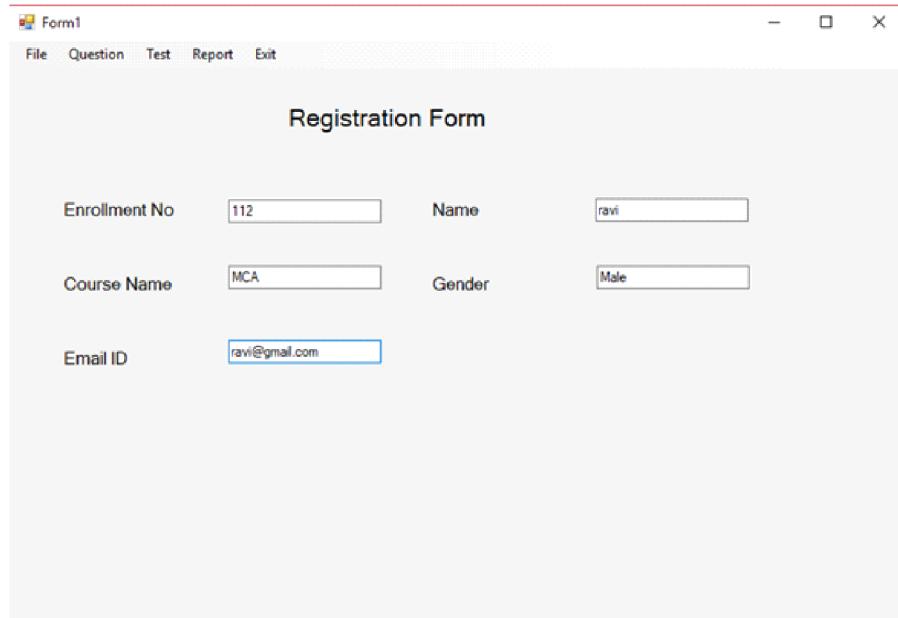
```

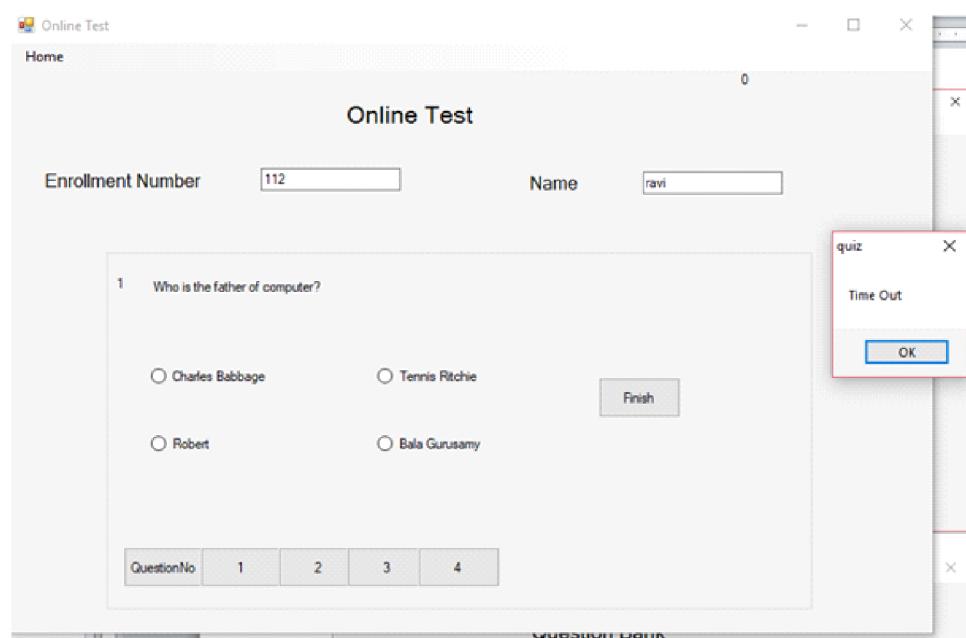
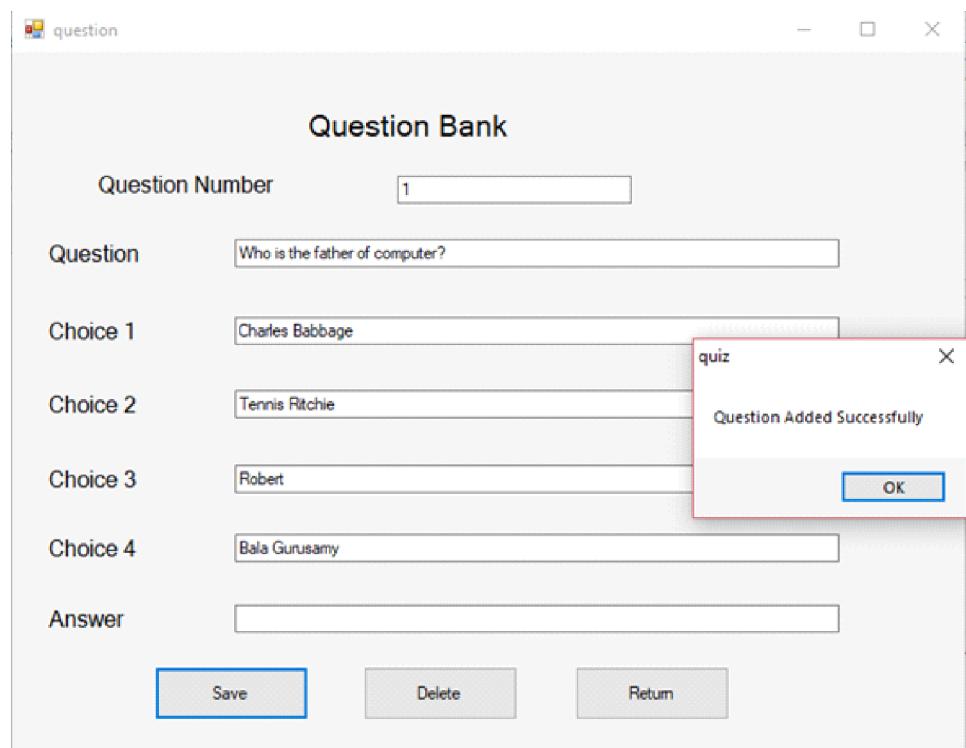
PrivateSub RadioButton1_Click(ByVal sender As Object, ByVal e As System.EventArgs)
    Handles RadioButton1.Click, RadioButton2.Click, RadioButton3.Click,
        RadioButton4.Click
    cmd.ActiveConnection = con
    cmd.CommandText = "select ans from quest where qno=?"

```

```
cmd.Parameters.Item(0).Value = qno.Text  
cmd.ExecuteNonQuery()  
  
If qno.Text = 1 And RadioButton1.Checked = True Then  
    corr = corr + 1  
ElseIf qno.Text = 2 And RadioButton2.Checked = True Then  
    corr = corr + 1  
ElseIf qno.Text = 3 And RadioButton3.Checked = True Then  
    corr = corr + 1  
ElseIf qno.Text = 4 And RadioButton4.Checked = True Then  
    corr = corr + 1  
  
Else  
    wrng = wrng + 1  
EndIf  
EndSub  
EndClass
```

Output





Report

The screenshot shows a Windows application window titled "Report". Inside the window, there is a button labeled "Return" and a title "Online Test Report". Below the title is a data grid table with the following data:

	Enrollment No	Name	Correct	Wrong	Total
▶	112	ravi	2	2	50
	123	rani	1	3	25
	234	hari	2	2	50
*					

9. To create library master, member and transaction database for library maintenance and create reports for the same

Book table Name : master

Field Name	Type	Description
accno	Currency	Book Number
bname	Text	Name of the Book
aname	Text	Name of the Author
publ	Text	Name of the Publication
Price	Currency	Cost of the Book
cop	Currency	No of copies

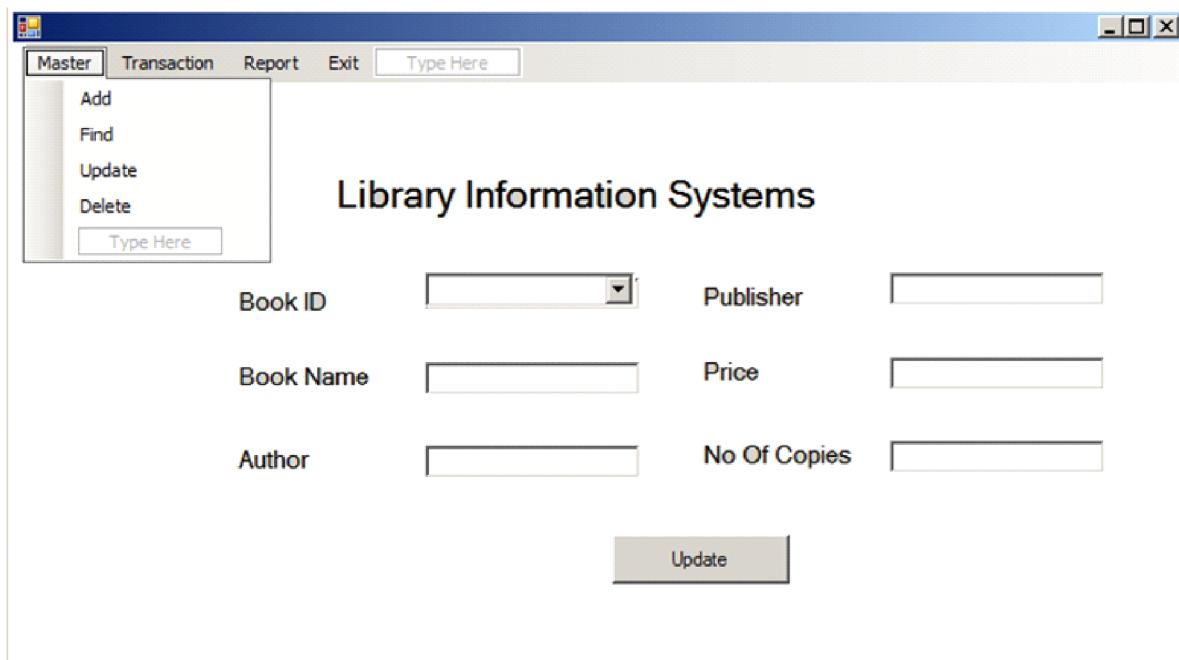
Member Table : member

Field Name	Type	Description
enrno	Text	Enrollment Number
sname	Text	Name of the student
cname	Text	Name of the course
cocard	Currency	No of card

Issue return Table Name : trans

Field name	Type	Description
enrno	Text	Enrollment Number
sname	Text	Name of the student
cname	Text	Name of the course
bname	Text	Book Name
issuedt	Date	Issue date
redt	Date	Return date
nocard	Currency	No of cards
fine	Currency	Collect the fine

Form Designing:



Coding

```

Imports System.Data.OleDb
PublicClassForm1
Dim con As New OleDbConnection
Dim cmd As New OleDbCommand
Dim dr As OleDbDataReader
Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles MyBase.Load
    con = New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
        Source=C:\Users\dell\Desktop\rdbms\library\library.accdb")
    con.Open()
    combaccno.Visible = False
    btupdate.Visible = False
    MsgBox("Connected")
End Sub

```

```

PrivateSub AddToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles AddToolStripMenuItem.Click
    combaccno.Visible = False
    taccno.Visible = True
    btupdate.Visible = False
    cmd.Connection = con
    cmd.CommandText = "insert into master
        values(@accno,@bname,@aname,@publ,@price,@cop)"
    cmd.Parameters.AddWithValue("@accno", Convert.ToInt32(taccno.Text))
    cmd.Parameters.AddWithValue("@bname", tbkname.Text)
    cmd.Parameters.AddWithValue("@aname", tauthor.Text)
    cmd.Parameters.AddWithValue("@publ", tpubl.Text)
    cmd.Parameters.AddWithValue("@price", Convert.ToDecimal(tprice.Text))
    cmd.Parameters.AddWithValue("@cop", Convert.ToInt32(tcopy.Text))
    cmd.ExecuteNonQuery()
    MsgBox("Records Added Successfully")
    taccno.Text = ""
    tbkname.Text = ""
    tauthor.Text = ""
    tpubl.Text = ""
    tprice.Text = ""
    tcopy.Text = ""
    con.Close()
EndSub

```

```

PrivateSub FindToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles FindToolStripMenuItem.Click
    combaccno.Visible = False
    taccno.Visible = True
    btupdate.Visible = False

```

```

Dim n, flag AsInteger
    n = Val(InputBox("Enter the Book - Id "))
    cmd.Connection = con
    cmd.CommandText = "select * from master"
    dr = cmd.ExecuteReader()
    While (dr.Read())
        If (Convert.ToInt32(dr(0).ToString()) = n) Then
            tacccno.Text = dr(0).ToString
            tbkname.Text = dr(1).ToString
            tauthor.Text = dr(2).ToString
            tpubl.Text = dr(3).ToString
            tprice.Text = dr(4).ToString
            tcopy.Text = dr(5).ToString
            flag = 1
        EndIf
    EndWhile
    If flag = 0 Then
        MsgBox("Not Found")
    EndIf
    dr.Close()
EndSub

```

```

PrivateSub DeleteToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles DeleteToolStripMenuItem.Click
    combaccno.Visible = False
    tacccno.Visible = True
    btupdate.Visible = False
    Dim n, flag AsInteger
    n = Val(InputBox("Enter the Book - Id "))
    cmd.Connection = con

```

```

cmd.CommandText = "select * from master"
dr = cmd.ExecuteReader()

While (dr.Read())
If (Convert.ToInt32(dr(0).ToString()) = n) Then
    cmd = New OleDbCommand("delete from master where accno=@accno",
    con)
    cmd.Parameters.AddWithValue("@accno", n)
    cmd.ExecuteNonQuery()
    MsgBox("record deleted ")
    flag = 1
EndIf
EndWhile
If flag = 0 Then
    MsgBox("Book Not Found")
EndIf
EndSub

PrivateSub UpdateToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles UpdateToolStripMenuItem.Click
    combaccno.Visible = True
    Btupdate.Visible = True
    tacccno.Visible = False
    cmd.Connection = con
    cmd.CommandText = "select * from master"
    dr = cmd.ExecuteReader()

    While dr.Read()
        combaccno.Items.Add(dr("accno").ToString())
    EndWhile
    dr.Close()
EndSub

```

```

PrivateSub btupdate_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btupdate.Click
Dim str AsString
    str = "Update master set bname=?,aname=?,publ=?,price=?,cop=? where
        accno=?"
    cmd = NewOleDbCommand(str, con)
    cmd.Parameters.AddWithValue("@bname", tbkname.Text)
    cmd.Parameters.AddWithValue("@aname", tauthor.Text)
    cmd.Parameters.AddWithValue("@publ", tpubl.Text)
    cmd.Parameters.AddWithValue("@price", Convert.ToDecimal(tprice.Text))
    cmd.Parameters.AddWithValue("@cop", Convert.ToInt32(tcopy.Text))
    cmd.Parameters.AddWithValue("@accno", Convert.ToInt32(taccno.Text))
    cmd.ExecuteNonQuery()
    MsgBox("Records Updated Successfully")
    taccno.Text = ""
    tbkname.Text = ""
    tauthor.Text = ""
    tpubl.Text = ""
    tprice.Text = ""
    tcopy.Text = ""
    combaccno.Visible = False
EndSub

```

```

PrivateSub combaccno_SelectedIndexChanged(ByVal sender As System.Object, ByVal
    e As System.EventArgs) Handles combaccno.SelectedIndexChanged
    cmd.Connection = con
    cmd.CommandText = "select * from master where accno=@accno"
    cmd.Parameters.AddWithValue("@accno", combaccno.SelectedItem)
    dr = cmd.ExecuteReader()
    While dr.Read()

```

```

taccno.Text = dr(0).ToString
tbkname.Text = dr(1).ToString
tauthor.Text = dr(2).ToString
tpubl.Text = dr(3).ToString
tprice.Text = dr(4).ToString
tcopy.Text = dr(5).ToString

EndWhile

EndSub

PrivateSub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ExitToolStripMenuItem.Click
End
EndSub

PrivateSub TransactionToolStripMenuItem_Click(ByVal sender As System.Object, ByVal
e As System.EventArgs) Handles TransactionToolStripMenuItem.Click
Me.Hide()
Transcation.Show()
EndSub

PrivateSub BookReportToolStripMenuItem_Click(ByVal sender As System.Object, ByVal
e As System.EventArgs) Handles BookReportToolStripMenuItem.Click
Me.Hide()
report.Show()
    report.ReportViewer1.Show()
    report.ReportViewer2.Hide()
EndSub

PrivateSub IssuseReportToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles IssuseReportToolStripMenuItem.Click
Me.Hide()

```

```

    report.Show()

    report.ReportViewer2.Show()

    report.ReportViewer1.Hide()

EndSub

EndClass

```

Transaction form

	Book ID	Book Name	Publisher	No Of Copie
*				
<input type="button" value="Return"/>				

Coding

```

Imports System.Data.OleDb
Public Class Transcation
Dim con As New OleDbConnection
Dim cmd, cmd1, cmd2 As New OleDbCommand
Dim dr, dr1 As OleDbDataReader
Dim enrno, flag, cop As Integer
Dim bname As String
Private Sub Transcation_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load

```

'TODO: This line of code loads data into the 'LibraryDataSet1.master' table. You can move, or remove it, as needed.

```
Me.MasterTableAdapter.Fill(Me.LibraryDataSet1.master)
```

'TODO: This line of code loads data into the 'LibraryDataSet2.master' table. You can move, or remove it, as needed.

'TODO: This line of code loads data into the 'LibraryDataSet1.member' table. You can move, or remove it, as needed.

```
con = NewOleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
```

```
Source=C:\Users\dell\Desktop\rdbms\library\library.accdb")
```

```
con.Open()
```

```
btissue.Visible = False
```

```
bt.Visible = False
```

```
btret.Visible = False
```

```
EndSub
```

```
PrivateSub AddToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles AddToolStripMenuItem.Click
```

```
bt.Visible = True
```

```
btissue.Visible = False
```

```
btret.Visible = False
```

```
taccno.Enabled = False
```

```
tbktitle.Enabled = False
```

```
tissue.Enabled = False
```

```
tretdt.Enabled = False
```

```
tfine.Enabled = False
```

```
EndSub
```

```
PrivateSub HomeToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles HomeToolStripMenuItem.Click
```

```
Me.Hide()
```

```

Form1.Show()
EndSub

PrivateSub MemberFileToolStripMenuItem_Click(ByVal sender As System.Object, ByVal
e As System.EventArgs) Handles MemberFileToolStripMenuItem.Click
    tacno.Enabled = False
    tbktitle.Enabled = False

    tissue.Visible = False
    tretdt.Visible = False
    tfine.Enabled = False
EndSub

PrivateSub DeleteToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles DeleteToolStripMenuItem.Click
    bt.Visible = False
    btissue.Visible = False
    btrt.Visible = False
Dim n, flag AsInteger
    n = Val(InputBox("Enter the Member - Id "))
    cmd.Connection = con
    cmd.CommandText = "select * from member"
    dr = cmd.ExecuteReader()

    While (dr.Read())
        If (Convert.ToInt32(dr(0).ToString()) = n) Then
            cmd = New OleDbCommand("delete from member where enrno=@enrno",
con)
            cmd.Parameters.AddWithValue("@enrno", n)
            cmd.ExecuteNonQuery()
        EndIf
    EndWhile
EndSub

```

```

        MsgBox("Member deleted ")
        flag = 1
    EndIf
EndWhile
If flag = 0 Then
    MsgBox("Member Not Found")
EndIf
dr.Close()
EndSub

PrivateSub FindToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles FindToolStripMenuItem.Click
    bt.Visible = False
    btissue.Visible = False
    btret.Visible = False
Dim n, flag AsInteger
    n = Val(InputBox("Enter the Book - Id "))
    cmd.Connection = con
    cmd.CommandText = "select * from member "
    dr = cmd.ExecuteReader()
    While (dr.Read())
        If (Convert.ToInt32(dr(0).ToString()) = n) Then
            terno.Text = dr(0).ToString
            tname.Text = dr(1).ToString
            tcourse.Text = dr(2).ToString
            tnocard.Text = dr(3).ToString
            flag = 1
        EndIf
        terno.Text = ""
        tname.Text = ""
    EndWhile
EndSub

```

```

tcourse.Text = ""
tnocard.Text = ""

EndWhile

If flag = 0 Then
    MsgBox("Not Found")
EndIf
dr.Close()

EndSub

Private Sub IssueToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles IssueToolStripMenuItem.Click
    btissue.Visible = True
    bt.Visible = False
    btret.Visible = False
    cop = 0
Dim n, flag As Integer
    n = Val(InputBox("Enter the Book ID"))
    enrno = Val(InputBox("Enter the Student Enrollment No"))
    cmd1.Connection = con
    cmd1.CommandText = "select * from master where accno=@accno"
    cmd1.Parameters.AddWithValue("@accno", Val(n))
    dr = cmd1.ExecuteReader()

    While (dr.Read())
        If dr(5) > 0 Then
            cop = dr(5).ToString()
            MsgBox(cop)
            flag = 1
            tacccno.Text = n
            tbktitle.Text = dr(1).ToString()
            tissue.Text = Date.Now
        EndIf
    EndWhile
EndSub

```

```

tretdt.Text = Convert.ToDateTime(tissue.Text).AddDays(15).ToString
tfine.Text = 0
Else
    MsgBox(" Book Not Available")
EndIf
EndWhile
dr.Close()
dispmember()
EndSub

PrivateSub btissue_Click(ByVal sender As Object, ByVal e As System.EventArgs)
    Handles btissue.Click
    cmd = New OleDbCommand("update master set cop=? where accno=?", con)
    cmd.Parameters.AddWithValue("@cop", cop - 1)
    cmd.Parameters.AddWithValue("@accno", taccno.Text)
    cmd.ExecuteNonQuery()
    cmd.Dispose()
'update no of card
    cmd1.Connection = con
    cmd1 = New OleDbCommand("update member set nocard=? where enrno=?", con)
    cmd1.Parameters.AddWithValue("@nocard", Val(tnocard.Text) - 1)
    cmd1.Parameters.AddWithValue("@enrno", terno.Text)
    cmd1.ExecuteNonQuery()
    cmd2.CommandText = "insert into trans
        values(@enrno,@sname,@cname,@bname,@issusedt,@redt,@nocard,@fine)"
    cmd2.Connection = con
    cmd2.Parameters.AddWithValue("@enrno", terno.Text)
    cmd2.Parameters.AddWithValue("@sname", tname.Text)
    cmd2.Parameters.AddWithValue("@cname", tcourse.Text)

```

```

cmd2.Parameters.AddWithValue("@bname", tbktitle.Text)
cmd2.Parameters.AddWithValue("@issusedt", tissue.Text)
cmd2.Parameters.AddWithValue("@redt", tretdt.Text)
cmd2.Parameters.AddWithValue("@nocard", tnocard.Text)
cmd2.Parameters.AddWithValue("@fine", 0)
cmd2.ExecuteNonQuery()
MsgBox("Book Issused")
flag = 1
btissue.Enabled = False
bt.Enabled = False
btret.Enabled = False
dr.Close()

If flag = 0 Then
    MsgBox("Book not Issuse")
EndIf
EndSub

```

```

PrivateSub ReturnToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ReturnToolStripMenuItem.Click
    bt.Visible = False
    btissue.Visible = False
    btret.Visible = True
    cop = 0
    bname = InputBox("Enter the Book Name ")
    enrno = Val(InputBox("Enter the Student Enrollment No "))
    cmd.Connection = con
    cmd.CommandText = "select * from trans where enrno=@enrno and
        bname=@bname"
    cmd.Parameters.AddWithValue("@enrno", enrno)
    cmd.Parameters.AddWithValue("@bname", bname)

```

```

dr1 = cmd.ExecuteReader()

While (dr1.Read())
    terno.Text = dr1(0).ToString
    tname.Text = dr1(1).ToString
    tcourse.Text = dr1(2).ToString
    tbktitle.Text = dr1(3).ToString
    tissue.Text = dr1(4).ToString
    tretdt.Text = dr1(5).ToString
    tnocard.Text = dr1(6).ToString
    flag = 0

EndWhile

If Date.Compare(CDate(tretdt.Text), CDate(Date.Now)) < 0 Then
    tfine.Text = 100
Else
    tfine.Text = 0
EndIf

dr1.Close()

EndSub

Private Sub btret_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    Handles btret.Click

    If flag = 1 Then
        MsgBox(" Invalid Book ID")
    Else
        cmd1.Connection = con
        cmd1.CommandText = "select * from member where enrno=@enrno "
        cmd1.Parameters.AddWithValue("@enrno", enrno)
        cmd1.ExecuteNonQuery()
        dr1 = cmd1.ExecuteReader()

        While (dr1.Read())

```

```

cmd1 = NewOleDbCommand("update member set nocard=? where
enrno=?", con)
cmd1.Parameters.AddWithValue("@nocard", Val(tnocard.Text) + 1)
cmd1.Parameters.AddWithValue("@enrno", dr1(0).ToString)
cmd1.ExecuteNonQuery()

EndWhile

dr1.Close()
cmd.Connection = con
cmd.CommandText = "select * from master"
dr1 = cmd.ExecuteReader()

While (dr1.Read())
If (dr1(1).ToString = bname) Then
    flag = 1
    tbktitle.Text = dr1(1).ToString
    tacccno.Text = dr1(0).ToString
    cmd = NewOleDbCommand("update master set cop=? where accno=?", con)
    cmd.Parameters.AddWithValue("@cop", Convert.ToInt32(dr1(5).ToString) +
1)
    cmd.Parameters.AddWithValue("@accno", dr1(0).ToString)
    cmd.ExecuteNonQuery()
    cmd.Dispose()
    cmd2 = NewOleDbCommand("update trans set redt=?,fine=?,nocard=?
where enrno=? and bname=?", con)
    cmd2.Parameters.AddWithValue("@redt", tredt.Text)
    cmd2.Parameters.AddWithValue("@fine", tfine.Text)
    cmd2.Parameters.AddWithValue("@nocard", Val(tnocard.Text) + 1)
    cmd2.Parameters.AddWithValue("@enrno", terno.Text)
    cmd2.Parameters.AddWithValue("@bname", tbktitle.Text)

```

```

        cmd2.ExecuteNonQuery()
        MsgBox("Book Return")

EndIf
EndWhile
If flag = 0 Then
    MsgBox("Book not Return")
EndIf
EndIf
EndSub

PublicFunction dispmember()
    cmd.Connection = con
    cmd.CommandText = "select sname,cname,nocard from member where
        enrno=?"
    cmd.Parameters.AddWithValue("@enrno", enrno.ToString)
    dr = cmd.ExecuteReader()

    While dr.Read()
        tname.Text = dr(0).ToString
        tcourse.Text = dr(1).ToString
        tnocard.Text = dr(2).ToString
        terno.Text = enrno

    EndWhile
    dr.Close()
EndFunction

PrivateSub bt_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    Handles bt.Click
    cmd.Connection = con
    cmd.CommandText = "insert into member
        values(@enrno,@sname,@cname,@nocard)"
    cmd.Parameters.AddWithValue("@enrno", terno.Text)

```

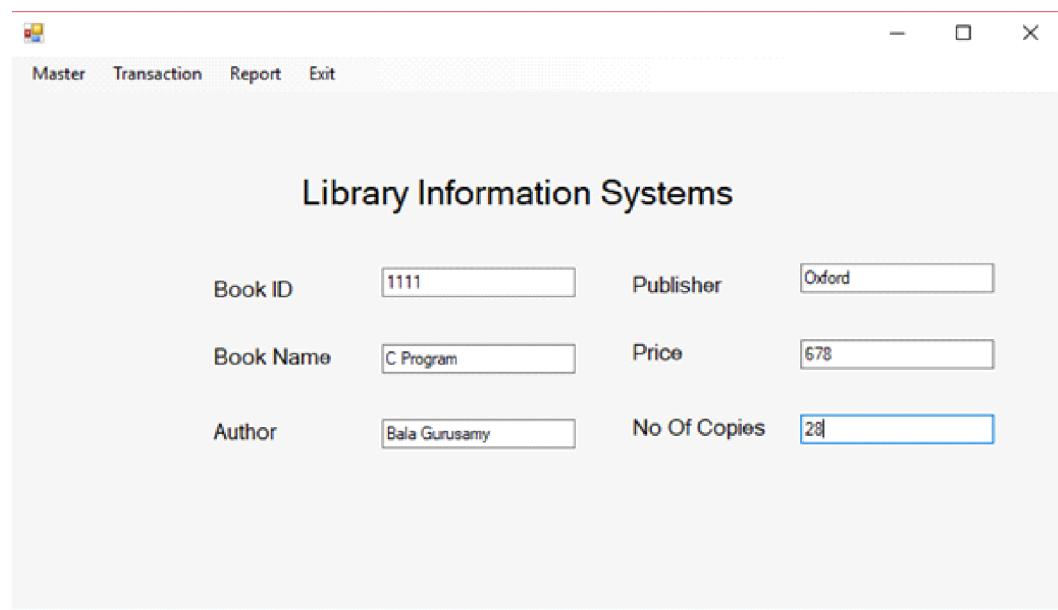
```

cmd.Parameters.AddWithValue("@sname", tname.Text)
cmd.Parameters.AddWithValue("@cname", tcourse.Text)
cmd.Parameters.AddWithValue("@nocard", Convert.ToInt32(tnocard.Text))
cmd.ExecuteNonQuery()
MsgBox("Member Added Successfully")
terno.Text = ""
tname.Text = ""
tcourse.Text = ""
tnocard.Text = ""
taccno.Enabled = True
tbktitle.Enabled = True
tissue.Visible = True
tretdt.Visible = True
tfine.Visible = True
EndSub

PrivateSub tnocard_LostFocus(ByVal sender AsObject, ByVal e As System.EventArgs)
    Handles tnocard.LostFocus
If Val(tnocard.Text < 0) Then
    MsgBox("Card Not Available")
    btissue.Enabled = False
EndIf
EndSub
EndClass

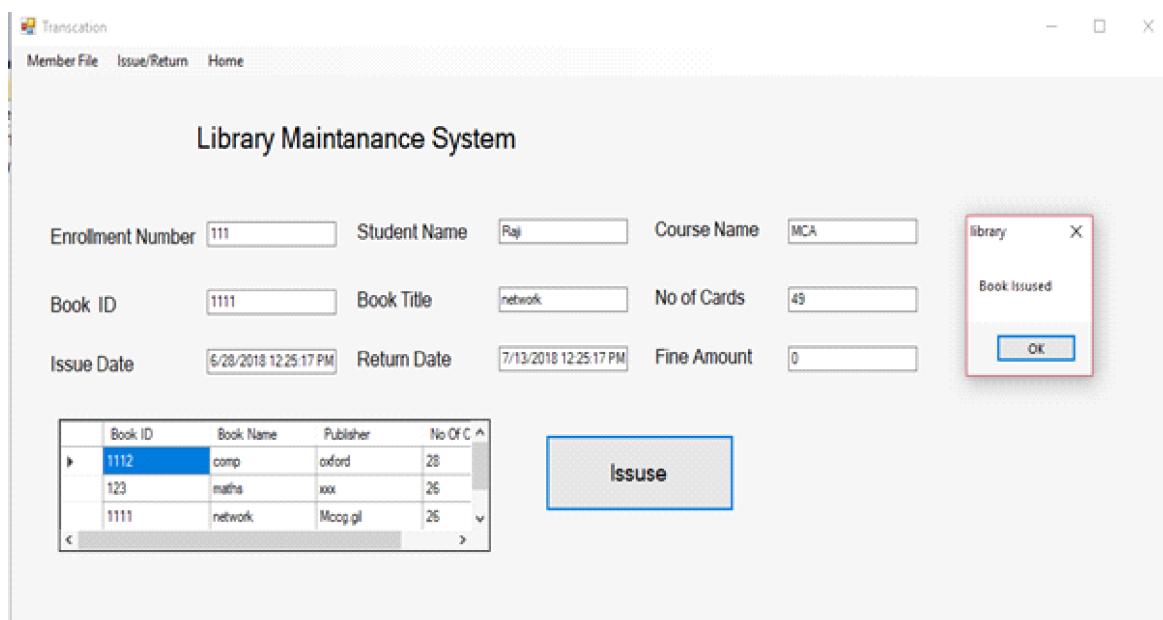
```

Output



The screenshot shows a Windows application window titled "Library Information Systems". The menu bar includes "Master", "Transaction", "Report", and "Exit". The main area displays the following form fields:

Book ID	1111	Publisher	Oxford
Book Name	C Program	Price	678
Author	Bala Gurusamy	No Of Copies	28



The screenshot shows a Windows application window titled "Library Maintenance System". The menu bar includes "Member File", "Issue/Return", and "Home". The main area displays the following form fields and a modal dialog:

Enrollment Number	111	Student Name	Raj	Course Name	MCA
Book ID	1111	Book Title	network	No of Cards	49
Issue Date	6/28/2018 12:25:17 PM	Return Date	7/13/2018 12:25:17 PM	Fine Amount	0

A modal dialog box titled "library" contains the message "Book Issued" and an "OK" button.

Below the form is a table showing book details:

	Book ID	Book Name	Publisher	No Of C
>	1112	comp	oxford	28
	123	maths	xxx	26
<	1111	network	Mcgr gl	26

A large blue "Issue" button is centered below the table.

Form2

Home

A screenshot of a Windows application window titled "Form2". The window has a title bar with standard minimize, maximize, and close buttons. Below the title bar is a menu bar with "File", "Edit", "View", "Insert", "Format", "Tools", and "Help". The main area contains a grid table with the following data:

Book ID	Book Name	Publisher	Price	No of Copies
1111	C Program	oxford	678	28
1112	Data Structure	ISBN	400	26
1113	network	Mccg.gil	556	25

Form2

Home

A screenshot of a Windows application window titled "Form2". The window has a title bar with standard minimize, maximize, and close buttons. Below the title bar is a menu bar with "File", "Edit", "View", "Insert", "Format", "Tools", and "Help". The main area contains a grid table with the following data:

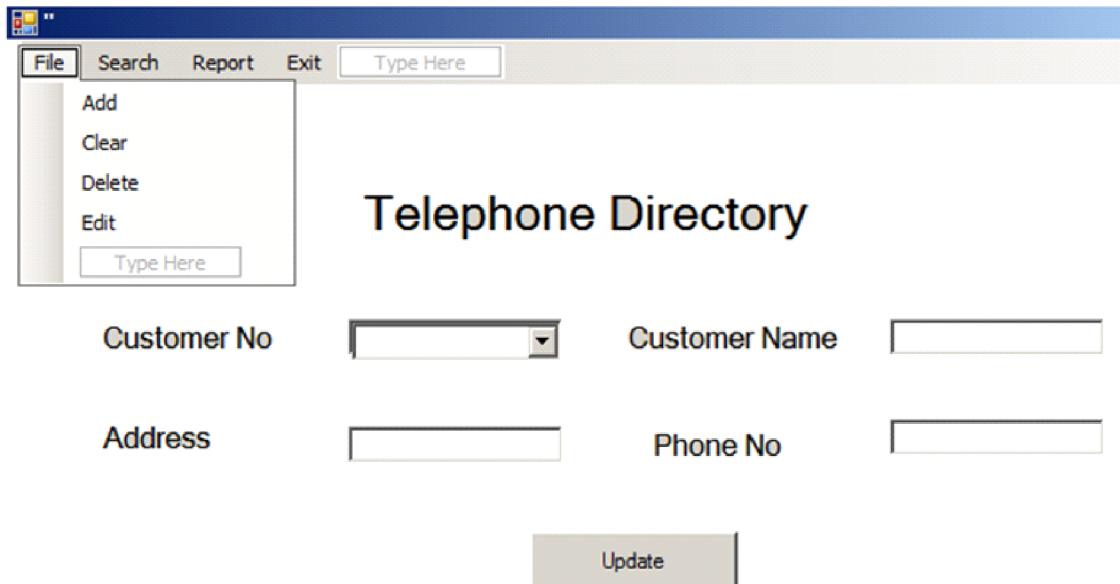
Enrollment No	Name	Book Name	Issusedate	Return date	No of Card	Fine
1111	Raja	Maths	12/5/2018 12:00:00 AM	12/15/2018 12:00:00 AM	2	100
1113	Hari	Network	6/21/2018 6:41:18 PM	7/6/2018 6:41:18 PM	34	0.0000

10. Aim: To create table for Telephone directory and provide the option to search and display.

Table structure

Field Name	Type	Description
custno	Currency	Customer Number
custname	Text	Name of the Customer
address	Text	Name of the address
phoneno	Currency	Phone Number

Form Design



Coding

```

Imports System.Data.OleDb
PublicClassForm1
Dim con AsNew OleDbConnection
Dim cmd, cmd1 AsNew OleDbCommand
Dim dr As OleDbDataReader
Dim n AsDouble
Dim flag AsInteger = 0

```

```

PrivateSub Form1_Load(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles MyBase.Load
    con = New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
        Source=C:\Users\dell\Desktop\rdbms\telephone\telephone\telephone.accdb")
    con.Open()
    combcustno.Visible = False
    btupdate.Visible = False
    MsgBox("Connected")
EndSub

```

```

PrivateSub AddToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles ToolStripMenuItem.Click
    combcustno.Visible = False
    tcustno.Visible = True
    btupdate.Visible = False
    cmd.Connection = con
    cmd.CommandText = "insert into tele values(@custno,@custname,
        @address,@phoneno)"
    cmd.Parameters.AddWithValue("@custno", Convert.ToInt32(tcustno.Text))
    cmd.Parameters.AddWithValue("@custname", tcustname.Text)
    cmd.Parameters.AddWithValue("@address", taddress.Text)
    cmd.Parameters.AddWithValue("@phoneno",
        Convert.ToDouble(tphoneno.Text))
    cmd.ExecuteNonQuery()
    MsgBox("Record Added")
    dr.Close()
EndSub

```

```

PrivateSub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles ToolStripMenuItem.Click

```

```
End
```

```
EndSub
```

```
PrivateSub ClearToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ClearToolStripMenuItem.Click
```

```
    combcustno.Visible = False
```

```
    tcustno.Visible = True
```

```
    tcustno.Text = ""
```

```
    tcustname.Text = ""
```

```
    taddress.Text = ""
```

```
    tphoneno.Text = ""
```

```
EndSub
```

```
PrivateSub DeleteToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles DeleteToolStripMenuItem.Click
```

```
    combcustno.Visible = False
```

```
    tcustno.Visible = True
```

```
    btupdate.Visible = False
```

```
    n = Val(InputBox("Enter the customer Number"))
```

```
    cmd.Connection = con
```

```
    cmd.CommandText = "select custno from tele"
```

```
    dr = cmd.ExecuteReader()
```

```
    cmd1.Connection = con
```

```
    While (dr.Read())
```

```
        If (Convert.ToInt32(dr(0)) = n) Then
```

```
            cmd1.CommandText = "delete * from tele where custno=@custno"
```

```
            cmd1.Parameters.AddWithValue("@custno", n)
```

```
            cmd1.ExecuteNonQuery()
```

```
            flag = 1
```

```
            MsgBox("Record Deleted")
```

```

EndIf
EndWhile
If flag = 0 Then
    MsgBox("Invalid Customer Number")
EndIf
dr.Close()
EndSub

```

```

PrivateSub EditToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles EditToolStripMenuItem.Click
    combcustno.Visible = True
    tcustno.Visible = False
    btupdate.Visible = True
    cmd.Connection = con
    cmd.CommandText = "select custno from tele"
    dr = cmd.ExecuteReader()
    While (dr.Read())
        combcustno.Items.Add(dr(0).ToString)
    EndWhile
    dr.Close()
EndSub

```

```

PrivateSub btupdate_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles btupdate.Click
    cmd = New OleDbCommand("update tele set custname=?,address=?,phoneno=?
        where custno=?")
    cmd.Connection = con
    cmd.Parameters.AddWithValue("@custname", Convert.ToInt32(tcustno.Text))
    cmd.Parameters.AddWithValue("@address", taddress.Text)

```

```

cmd.Parameters.AddWithValue("@phoneno", Convert.ToDouble(tphoneno.Text))
cmd.Parameters.AddWithValue("@custno", combcustno.SelectedItem)
cmd.ExecuteNonQuery()
MsgBox("Record updated")
dr.Close()

EndSub

PrivateSub combcustno_SelectedIndexChanged(ByVal sender As System.Object,
    ByVal e As System.EventArgs) Handles combcustno.SelectedIndexChanged
EndSub

PrivateSub SearchToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles SearchToolStripMenuItem.Click
Me.Hide()
search.Show()
EndSub

PrivateSub ReportToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles ReportToolStripMenuItem.Click
Me.Hide()
Report.Show()
EndSub

PrivateSub taddress_LostFocus(ByVal sender As Object, ByVal e As
    System.EventArgs) Handles taddress.LostFocus
cmd.Connection = con
cmd.CommandText = "select max(phoneno) from tele"
dr = cmd.ExecuteReader()
While dr.Read
    tphoneno.Text = Val(dr(0).ToString) + 1

```

```

EndWhile
    MsgBox(" Mobile No Generated")
    dr.Close()
EndSub

PrivateSub combcustno_SelectedValueChanged(ByVal sender As Object, ByVal e As
    System.EventArgs) Handles combcustno.SelectedValueChanged
    cmd.Connection = con
    cmd.CommandText = "select * from tele where custno=@custno"
    cmd.Parameters.AddWithValue("@custno",
        Convert.ToInt32(combcustno.SelectedItem))
    dr = cmd.ExecuteReader()
    While dr.Read()
        tcustno.Text = dr(0).ToString
        tcustname.Text = dr(1).ToString
        taddress.Text = dr(2).ToString
        tphoneno.Text = dr(3).ToString
    EndWhile
    dr.Close()
EndSub
EndClass

Search form design

```

Coding

```

Imports System.Data.OleDb
PublicClasssearch
Dim con As New OleDbConnection
Dim n As Double
Dim flag As Integer = 0

```

```
PrivateSub search_Load(ByVal sender As System.Object, ByVal e As
```

```

    System.EventArgs) Handles MyBase.Load

    con = New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
        Source=C:\Users\dell\Desktop\rdbms\telephone\telephone\telephone.accdb")
        con.Open()

    Dim dr1 As OleDbDataReader
    Dim cmd As New OleDbCommand
        cmd.Connection = con
        cmd.CommandText = "select custname from tele"
        dr1 = cmd.ExecuteReader()

    While (dr1.Read())
        combcustname.Items.Add(dr1(0).ToString)
    EndWhile

    cmd.Dispose()
    dr1.Close()

EndSub

PrivateSub HomeToolStripMenuItem1_Click(ByVal sender As System.Object, ByVal e As
    System.EventArgs) Handles HomeToolStripMenuItem1.Click

    Me.Hide()
    Form1.Show()
EndSub

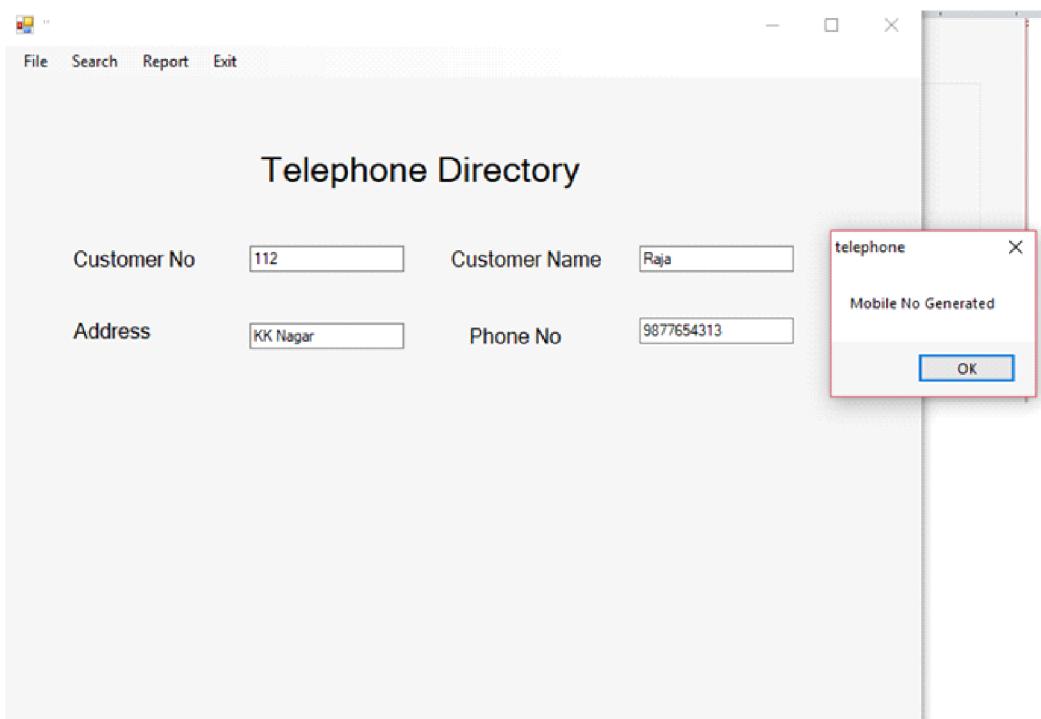
PrivateSub combcustname_SelectedIndexChanged(ByVal sender As System.Object,
    ByVal e As System.EventArgs) Handles combcustname.SelectedIndexChanged

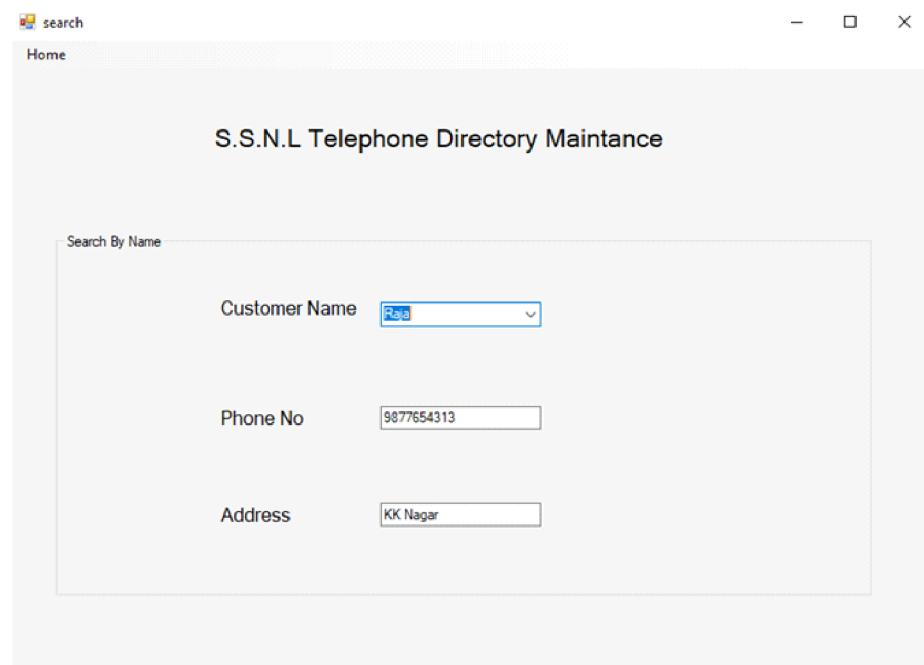
    Dim dr As OleDbDataReader
    Dim cmd As New OleDbCommand
        cmd.Connection = con
        cmd.CommandText = "select address,phoneno from tele where
            custname=@custname"

```

```
cmd.Parameters.AddWithValue("@custname", combcustname.SelectedItem.ToString)
dr = cmd.ExecuteReader()
While (dr.Read())
    taddress.Text = dr(0).ToString
    tpho.Text = dr(1).ToString
EndWhile
cmd.Dispose()
dr.Close()
EndSub
EndClass
```

Output





Report

	Customer No	Name	Address	Phone No
▶	112	Raja	KK Nagar	9877654312
	113	selvi	Ashok nagar	8976655444
	114	Hari	T nagar	8906554455
*				