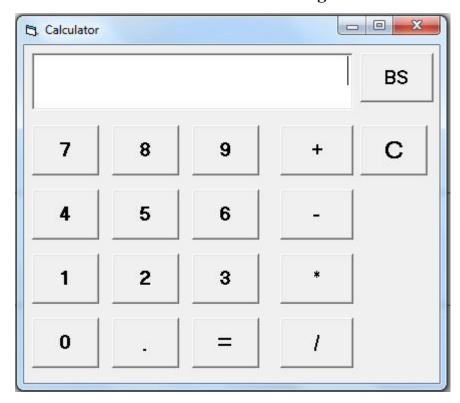
/*** 1. CALCULATOR ***/

Form Design



Coding

Dim SIGNE As String

Dim old As Double

Private Sub cmd_bs_Click()

If Len(Text1.Text) > 0 Then

Text1.Text = Left(Text1.Text, Len(Text1.Text) - 1)

End If

End Sub

Private Sub cmd_c_Click()

Call Form Load

Private Sub cmd equ Click()

Select Case (SIGNE)

Case $I_S = "+"$

Text1.Text = old + Val(Text1.Text)

Case Is = "-"

Text1.Text = old - Val(Text1.Text)

Case Is = "*"

Text1.Text = old * Val(Text1.Text)

Case Is = "/"

Text1.Text = old / Val(Text1.Text)

End Select

End Sub

Private Sub cmd_no_Click(Index As Integer)

 $Text1.Text = Text1.Text + cmd_no(Index).Caption$

If cmd_no(Index).Caption = "." Then cmd_no(10).Enabled = False

End if

End Sub

Private Sub cmd op Click(Index As Integer)

old = Val(Text1.Text)

Text1.Text = Val(" ")

SIGNE = cmd op(Index).Caption

cmd no(10). Enabled = True

End Sub

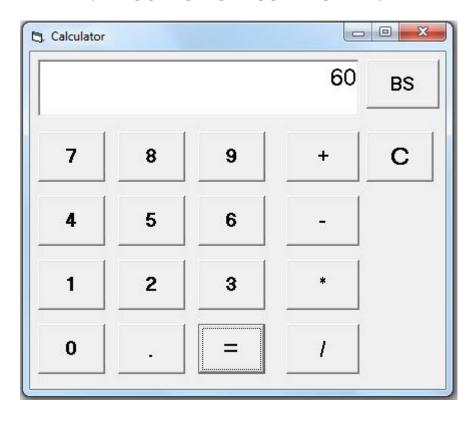
Private Sub Form Load()

Text1.Text = Val(" ")

old = 0

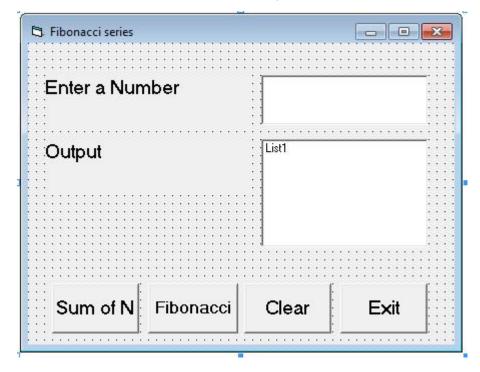
 $cmd_no(10)$.Enabled = True

/*** OUTPUT-CALCULATOR ***/



/*** 2. FIBONACCI SERIES & SUM OF N NUMBER ***/

Form Design



Coding

Dim n, i As Integer

Dim f1, f2, f3 As Single

Private Sub cmdclear_Click()

Text1 = ""

List1.Clear

End Sub

Private Sub cmdexit_Click()

End

End Sub

Private Sub cmdfab_Click()

n = Val(Text1)

f1 = -1

f2 = 1

For i = 1 To n

f3 = f1 + f2

List1.AddItem f3

f1 = f2

```
f2 = f3
```

Next i

End Sub

Private Sub cmdsum_Click()

n = Val(Text1)

If n = 1 Then

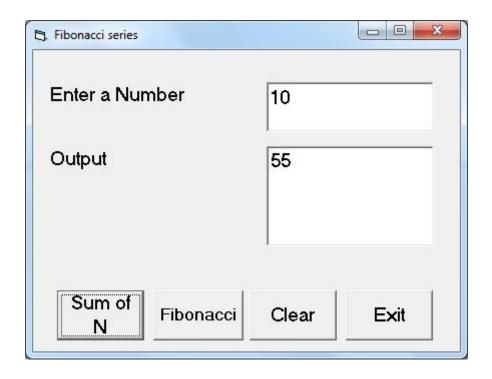
List1.AddItem 1

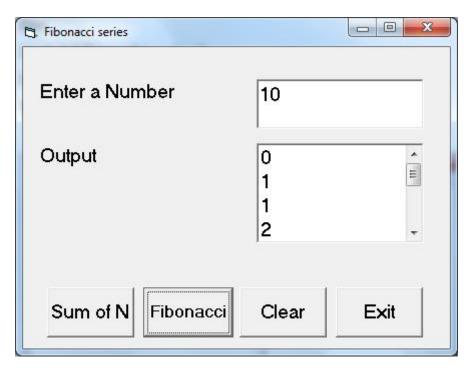
Else

List1.AddItem n * (n + 1) / 2

End If

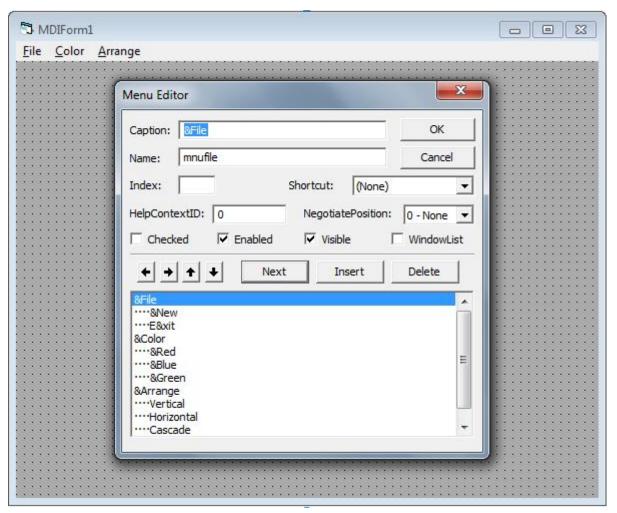
/*** OUTPUT- FIBONACCI SERIES & SUM OF N NUMBER ***/





/*** 3. MENU DRIVEN USING MDI ***/

Form Design



Coding

Dim frmd As Form1

Private Sub mnublue_Click()

Me.ActiveForm.BackColor = vbBlue

End Sub

Private Sub mnucascade_Click()

Me.Arrange vbCascade

Private Sub mnugreen_Click() Me.ActiveForm.BackColor = vbGreen End Sub Private Sub mnuhorizontal_Click() Me.Arrange vbHorizontal End Sub

 $Private\ Sub\ MDIForm_Load()$

mnucolor.Enabled = True

End Sub

Private Sub mnunew_Click()

Set frmd = New Form1

frmd.Show

End Sub

Private Sub mnured_Click()

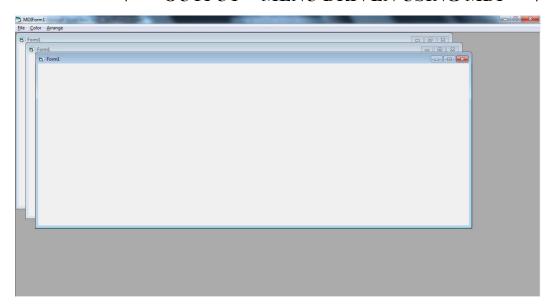
Me.ActiveForm.BackColor = vbRed

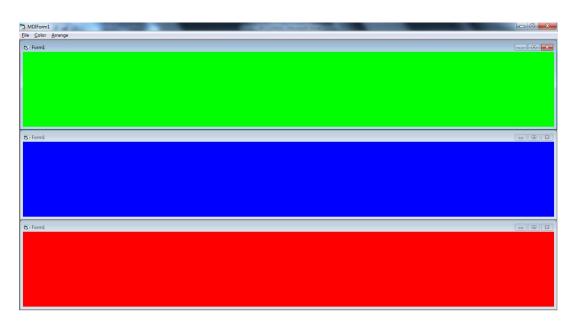
End Sub

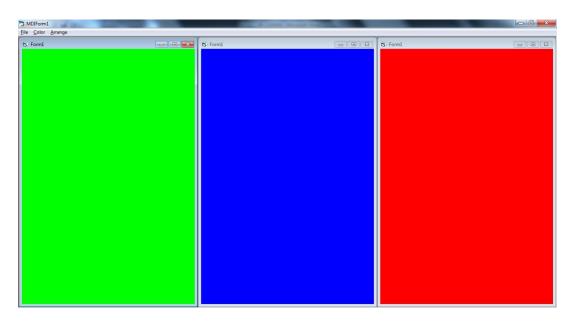
Private Sub mnuvertical_Click()

Me.Arrange vbVertical

/*** OUTPUT - MENU DRIVEN USING MDI ***/

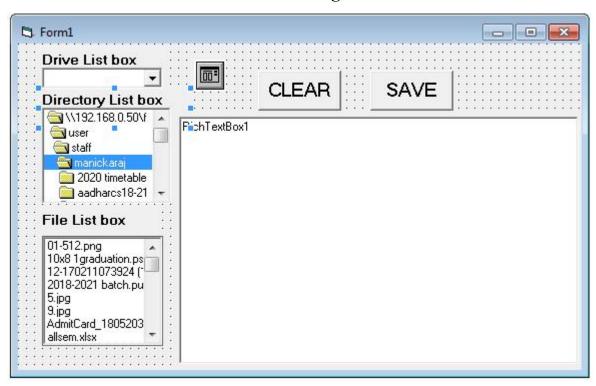






/*** 4. DRIVE, DIRECTORY AND FILE BOX ***/

Form Design



Coding

Private Sub clear Click()

rtb = ""

End Sub

Private Sub Dir1_Change()

File 1.Path = Dir 1.Path

End Sub

Private Sub Drive1 Change()

Dir1.Path = Drive1.Drive

End Sub

Private Sub File1_Click()

rtb.LoadFile (File1.Path & "/" & File1.FileName)

End Sub

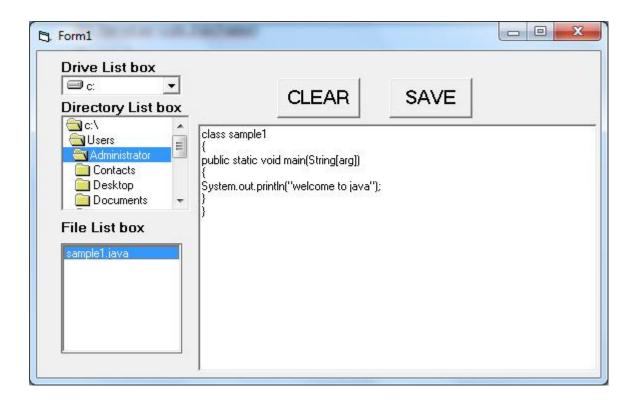
Private Sub save_Click()

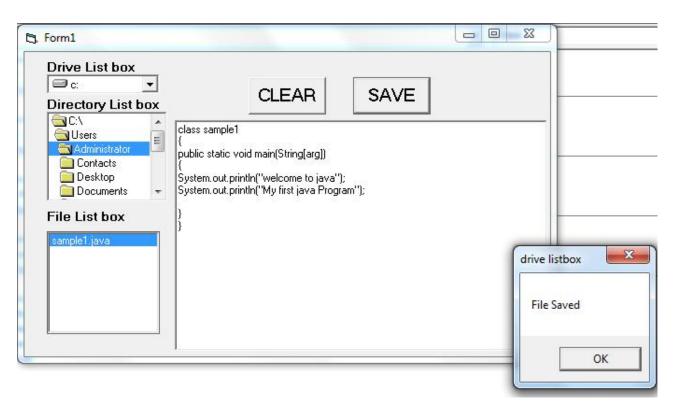
cdb.ShowSave

rtb.SaveFile (cdb.FileName)

MsgBox "File Saved"

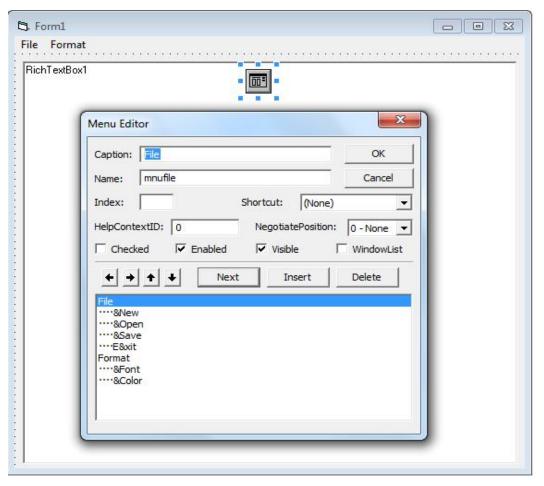
/*** OUTPUT - DRIVE, DIRECTORY AND FILE BOX ***/





/*** 5.TEXT FILES ***/

Form Design



Coding

Private Sub mnucolor_Click()

cdb.ShowColor

rtb.SelColor = cdb.Color

End Sub

Private Sub mnuexit Click()

End

End Sub

Private Sub mnufont_Click()

cdb.Flags = cdlCFBoth Or cdlCFLeffects

cdb.ShowFont

rtb.SelFontName = cdb.FontName

rtb.SelFontSize = cdb.FontSize

rtb.SelBold = cdb.FontBold

rtb.SelItalic = cdb.FontItalic

rtb.SelUnderline = cdb.FontStrikethru

End Sub

Private Sub mnuopen Click()

rtb.Visible = True

cdb.ShowOpen

rtb.LoadFile (cdb.FileName)

End Sub

Private Sub mnusave Click()

cdb.ShowSave

rtb.SaveFile (cdb.FileName)

MsgBox ("FILE SAVED" & cdb.FileName)

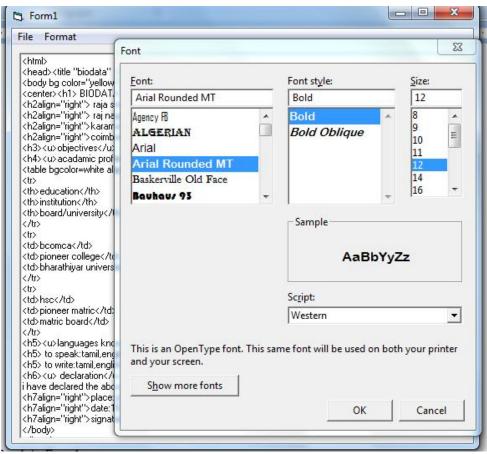
End Sub

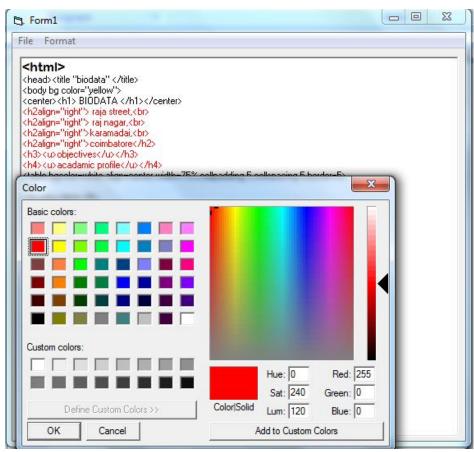
Private Sub mnunew_Click()

rtb.Visible = True

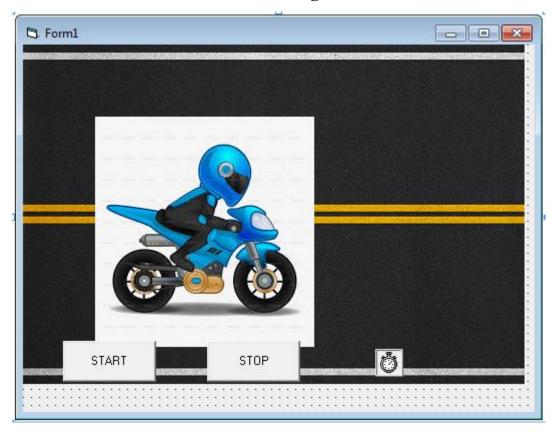
rtb.Text = " "

/*** OUTPUT - TEXT FILES ***/





Form Design



Coding

Private Sub Form_Load()

Timer1.Enabled = False

End Sub

Private Sub start_Click()

Timer1.Enabled = True

End Sub

Private Sub stop_Click()

Timer1.Enabled = False

End Sub

Private Sub Timer1 Timer()

Image1.Left = Image1.Left + 10

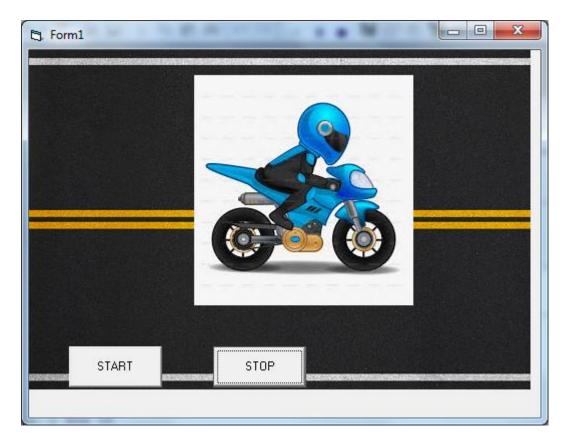
If Image1.Left >= 1000 Then

Image1.Left = Image1.Left + 10

Image1.Top = Image1.Top - 10

End If

/** OUTPUT- ANIMATION **/



Form Design

Number Conversion		
	::::::::::::::::::::::::::::::::::::::	<u>:::::::::::::::::::::::::::::::::::::</u>
Enter a Decimal N	lumber 🔛	
Result		
Binary	Octal	Hexa Decimal

Coding

Dim result, no, r As Integer

Private Sub Cmdbin_Click()

convert (2)

End Sub

Private Sub Cmdoct_Click()

convert (8)

End Sub

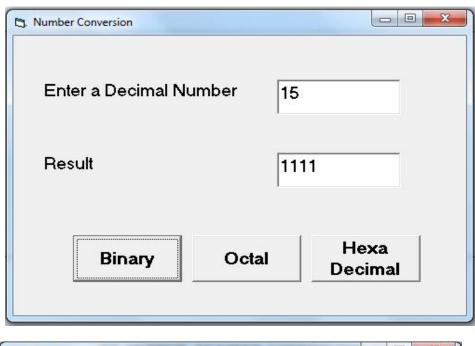
Private Sub Cmdhex_Click()

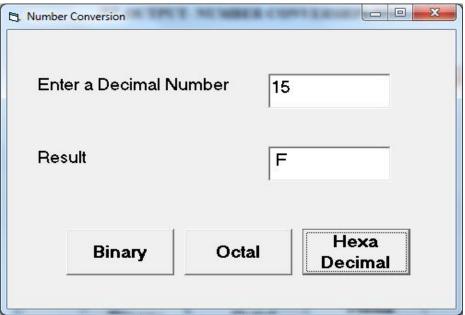
convert (16)

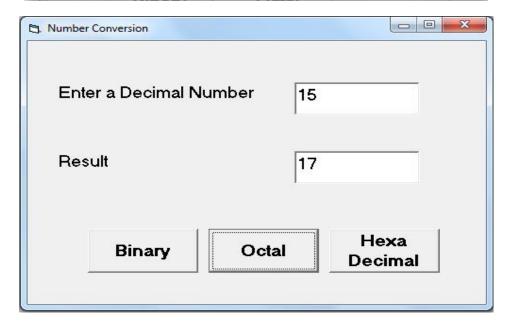
Public Sub convert(value As Integer)

```
result = " "
no = 0
no = Val(Text1.Text)
While no > 0
r = no Mod value
no = no \ value
If r > 9 Then
result = result & Chr(r + 55)
Else
result = r & result
End If
Wend
Text2.Text = result
```

/** OUTPUT- NUMBER CONVERSION **/







CREATION OF EMPLOYEE TABLE

SQL> create table employee(emp_no number(3) primary key, name varchar2(30), designation varchar2(30), gender varchar2(7), age number(3), date_of_joining date, salary number(6));

Table created.

TO VIEW TABLE STRUCTURE

SQL> desc employee;

Name	Null? Type
EMP_NO	NOT NULL NUMBER(3)
NAME	VARCHAR2(30)
DESIGNATION	VARCHAR2(30)
GENDER	VARCHAR2(7)
AGE	NUMBER(3)
DATE_OF_JOINING	DATE
SALARY	NUMBER(6)

INSERTING RECORDS INTO TABLE

SQL> insert into employee values(&emp_no , '&name' , '&designation' , '&gender' ,
&age , '&date_of_joining' , &salary);

Enter value for emp_no: 111
Enter value for name: smith

Enter value for designation: manager

Enter value for gender: male Enter value for age: 50

Enter value for date of joining: 04-jun-60

Enter value for salary: 265000

old 1: insert into employee

values(&emp_no,'&name','&designation','&gender',&age,'&date_of_joining',&salary) new 1: insert into employee values(111,'smith','manager','male',50,'04-jun-60',265000)

SQL>/

Enter value for emp_no: 112 Enter value for name: larry

Enter value for designation: worker

Enter value for gender: male Enter value for age: 30

Enter value for date of joining: 05-dec-97

Enter value for salary: 12000 old 1: insert into employee

values(&emp_no,'&name','&designation','&gender',&age,'&date_of_joining',&salary) new 1: insert into employee values(112,'larry','worker','male',30,'05-dec-97',12000)

1 row created.

SOL>/

Enter value for emp_no: 113
Enter value for name: roberts
Enter value for designation: worker
Enter value for gender; male

Enter value for gender: male Enter value for age: 35

Enter value for date of joining: 12-feb-90

Enter value for salary: 18000 old 1: insert into employee

values(&emp_no,'&name','&designation','&gender',&age,'&date_of_joining',&salary) new 1: insert into employee values(113,'roberts','worker','male',35,'12-feb-90',18000)

1 row created.

SQL>/

Enter value for emp_no: 114 Enter value for name: rose

Enter value for designation: supervisor

Enter value for gender: female

Enter value for age: 40

Enter value for date of joining: 08-jan-85

Enter value for salary: 24500 old 1: insert into employee

values(&emp_no,'&name','&designation','&gender',&age,'&date_of_joining',&salary) new 1: insert into employee values(114,'rose','supervisor','female',40,'08-jan-85',24500)

SQL>/

Enter value for emp_no: 115 Enter value for name: aasha

Enter value for designation: worker Enter value for gender: female

Enter value for age: 26

Enter value for date of joining: 04-mar-00

Enter value for salary: 10000 old 1: insert into employee

values(&emp_no,'&name','&designation','&gender',&age,'&date_of_joining',&salary) new 1: insert into employee values(115,'aasha','worker','female',26,'04-mar-00',10000)

1 row created.

SQL>/

Enter value for emp_no: 116 Enter value for name: alen

Enter value for designation: worker Enter value for gender: female

Enter value for age: 29

Enter value for date of joining: 05-nov-97

Enter value for salary: 12000 old 1: insert into employee

values(&emp_no,'&name','&designation','&gender',&age,'&date_of_joining',&salary) new 1: insert into employee values(116,'alen','worker','female',29,'05-nov-97',12000)

1 row created.

SQL>/

Enter value for emp_no: 117 Enter value for name: alex

Enter value for designation: supervisor

Enter value for gender: male Enter value for age: 42

Enter value for date of joining: 18-aug-82

Enter value for salary: 29000 old 1: insert into employee

values(&emp_no,'&name','&designation','&gender',&age,'&date_of_joining',&salary) new 1: insert into employee values(117,'alex','supervisor','male',42,'18-aug-82',29000)

SQL>/

Enter value for emp_no: 118 Enter value for name: shaw

Enter value for designation: worker

Enter value for gender: male Enter value for age: 36

Enter value for date of joining: 02-jan-95

Enter value for salary: 18000 old 1: insert into employee

values(&emp_no,'&name','&designation','&gender',&age,'&date_of_joining',&salary) new 1: insert into employee values(118,'shaw','worker','male',36,'02-jan-95',18000)

1 row created.

SOL>/

Enter value for emp_no: 119 Enter value for name: dev

Enter value for designation: worker

Enter value for gender: male Enter value for age: 45

Enter value for date of joining: 04-jan-82

Enter value for salary: 18000 old 1: insert into employee

values(&emp_no,'&name','&designation','&gender',&age,'&date_of_joining',&salary) new 1: insert into employee values(119,'dev','worker','male',45,'04-jan-82',18000)

1 row created.

SOL>/

Enter value for emp_no: 120 Enter value for name: sheela

Enter value for designation: asst.manager

Enter value for gender: female

Enter value for age: 35

Enter value for date of joining: 12-dec-99

Enter value for salary: 28000 old 1: insert into employee

values(&emp no,'&name','&designation','&gender',&age,'&date of joining',&salary)

new 1: insert into employee values(120, 'sheela', 'asst.manager', 'female', 35, '12-dec-99', 28000)

DISPLAYING TABLE RECORDS

SQL> set linesize 200;

SQL> select * from employee;

_	EMP_NO NAME	DESIGNATION	GENDER	AGE DATE_OF_J	SALARY
	111 smith	manager	male	50 04-JUN-60	265000
	112 larry	worker	male	30 05-DEC-97	12000
	113 roberts	worker	male	35 12-FEB-90	18000
	114 rose	supervisor	female	40 08-JAN-85	24500
	115 aasha	worker	female	26 04-MAR-00	10000
	116 alen	worker	female	29 05-NOV-97	12000
	117 alex	supervisor	male	42 18-AUG-82	29000
	118 shaw	worker	male	36 02-JAN-95	18000
	119 dev	worker	male	45 04-JAN-82	18000
	120 sheela	asst.manager	female	35 12-DEC-99	28000

10 rows selected.

RESTRICTING TABLE RECORDS USING WHERE CLAUSE WITH RELATIONAL AND LOGICAL OPERATOR

SQL> select * from employee where gender = 'male';

EMP_NO NAME	DESIGNATION	GENDER	AGE DATE_OF	_J SALARY
111 smith	managar	male	50 04-JUN-60	265000
112 larry	manager worker	male	30 04-JON-00 30 05-DEC-97	12000
113 roberts	worker	male	35 12-FEB-90	18000
117 alex	supervisor	male	42 18-AUG-82	29000
118 shaw	worker	male	36 02-JAN-95	18000
119 dev	worker	male	45 04-JAN-82	18000

SQL> select * from employee where gender='female' and salary < 20000;

EMP_NO NAME	DESIGNATION	GENDER	AGE DATE_OF_J	SALARY
115 aasha	worker	female	26 04-MAR-00	10000
116 alen	worker	female	29 05-NOV-97	12000

SORTING

SQL> select emp no, name, designation from employee order by name desc;

EMP_NO NAME	DESIGNATION
111 smith 120 sheela 118 shaw 114 rose 113 roberts 112 larry 119 dev 117 alex 116 alen 115 aasha	manager asst.manager worker supervisor worker worker worker supervisor worker supervisor worker

10 rows selected.

SQL> select emp_no,name,designation from employee order by name;

EMP_NO NAME	DESIGNATION
115 aasha 116 alen 117 alex 119 dev 112 larry 113 roberts 114 rose 118 shaw 120 sheela 111 smith	worker worker supervisor worker worker worker supervisor worker asst.manager manager

SET OPERATION

SQL> select * from employee where gender = 'male' and salary > 20000

2 union

3 select * from employee where gender = 'female' and salary < 20000;

	EMP_NO NAME	DESIGNATION	GENDER	AGE DATE_OF_J	SALARY
-					
	111 smith	manager	male	50 04-JUN-60	265000
	115 aasha	worker	female	26 04-MAR-00	10000
	117 alex	supervisor	male	42 18-AUG-82	29000

GROUPING FUNCTION

MINIMUM_SALARY	MAXIMUM_SALARY	AVERAGE_SALARY
10000	265000	43450

SQL> commit;

Commit complete.

SQL> exit

CREATION OF INVENTORY TABLE

SQL> create table inventory(prono number(3) primary key,proname varchar2(25),rate number(8,2));

Table created.

TO VIEW TABLE STRUCTURE

SQL> desc inventory;

Name	Null?	Type
PRONO	NOT NULL	NUMBER(3)
PRONAME		VARCHAR2(25)
RATE		NUMBER(8,2)

INSERTING RECORDS INTO TABLE

SQL> insert into inventory values(&Prono,'&Proname',&Rate);

Enter value for prono: 1

Enter value for proname: keyboard

Enter value for rate: 500

old 1: insert into inventory values(&Prono,'&Proname',&Rate)

new 1: insert into inventory values(1,'Keyboard',500)

1 row created.

SQL > /

Enter value for prono: 2

Enter value for proname: monitor

Enter value for rate: 6000

old 1: insert into inventory values(&Prono,'&Proname',&Rate)

new 1: insert into inventory values(2,'monitor',6000)

1 row created.

SQL > /

Enter value for prono: 3

Enter value for proname: mouse

Enter value for rate: 200

old 1: insert into inventory values(&Prono,'&Proname',&Rate)

new 1: insert into inventory values(3,'mouse',200)

SQL > /

Enter value for prono: 4

Enter value for proname: pendrive

Enter value for rate: 800

old 1: insert into inventory values(&Prono,'&Proname',&Rate)

new 1: insert into inventory values(4,'pendrice',800)

1 row created.

SQL>/

Enter value for prono: 5 Enter value for proname: cpu Enter value for rate: 15000

old 1: insert into inventory values(&Prono,'&Proname',&Rate)

new 1: insert into inventory values(5,'cpu',15000)

1 row created.

DISPLAYING TABLE RECORDS

SQL> select * from inventory;

PRONO	PRONAME	RATE
1	keyboard	500
2	monitor	6000
3	mouse	200
4	pendrive	800
5	cpu	15000

SQL> ed up_rate;

```
begin
update inventory
set rate = rate + rate * 20 / 100;
end;
/
```

SQL>@up rate;

PL/SQL procedure successfully completed.

DISPLAYING TABLE RECORDS AFTER UPDATEING RATE

SQL> select * from inventory;

PRONO	PRONAME	RATE
1	Keyboard	600
2	monitor	7200
3	mouse	240
4	pendrive	960
5	cpu	18000

ADDING NEW COLUMN INTO A TABLE

SQL> alter table inventory add no of item number(3);

Table altered.

SQL> desc inventory;

Name	Null?	Type
PRONO PRONAME	NOT NULL	NUMBER(3) VARCHAR2(25)
RATE NO OF ITEM		NUMBER(8,2) NUMBER(3)

UPDATEING THE VALUE FOR NEW COLUMN

SQL> update inventory set no of item =&no of item where prono=&prono;

Enter value for no of item: 2

old 1: update inventory set no of item =&no of item

new 1: update inventory set no of item = 2

Enter value for prono: 1

old 2: where prono=&prono

new 2: where prono=1

1 row updated.

SQL>/ Enter value for no of item: 3 old 1: update inventory set no of item =&no of item new 1: update inventory set no of item =3 Enter value for prono: 2 old 2: where prono=&prono new 2: where prono=2 1 row updated. SQL>/ Enter value for no of item: 10 old 1: update inventory set no of item =&no of item new 1: update inventory set no of item =10 Enter value for prono: 3 old 2: where prono=&prono new 2: where prono=3 1 row updated. SQL>/ Enter value for no of item: 6 old 1: update inventory set no of item =&no of item new 1: update inventory set no of item =6 Enter value for prono: 4 old 2: where prono=&prono new 2: where prono=4 1 row updated. SQL>/ Enter value for no of item: 15 old 1: update inventory set no of item =&no of item new 1: update inventory set no of item =15 Enter value for prono: 5 old 2: where prono=&prono new 2: where prono=5

1 row updated.

DISPLAYING TABLE RECORDS AFTER UPDATION

SQL> select * from inventory;

PRONO	PRONAME	RATE NO	_OF_ITEM
1	Keyboard	600	2
2	monitor	7200	10
3	mouse	240	3
4	pendrice	960	6
5	cpu	18000	15

SQL> commit;

Commit complete.

SQL>

/*** 10. IMPLEMENTATION OF TRIGGERS ***/

CREATION OF INVENTORY MASTER TABLE

SQL>create table inventory_master(prono number(4) primary key, proname 2 varchar2(30),rate number(8,2),avail_qty number(4));

Table created.

CREATION OF INVENTORY TRANSACTION TABLE

SQL>create table inventory_trans(prono number(4) references inventory_master(prono) 2 purchase_date date,pur_qty number(4));

Table created

CREATION OF TRIGGER FOR DATA VALIDATION

SQL>ed trigger1
Create or replace trigger inv_master_trigger
Before insert or update on inventory_master for each row
Begin
If(:new.rate<=0)then
Raise_application_error(-20001,'invalid rate value');
End if;
End;
/
SQL>@trigger1
Trigger created

SQL>insert into inventory master values(&prono,'&proname',&rate,&avail qty);

Enter value for prono:5

Enter value for proname:pencil

Enter value for rate:2.50

Enter value for avail_qty:25

Old 1:insert into inventory master values(&prono, '&proname', &rate, &avail qty)

New 1:insert into inventory master values(5, 'pencil', 2.50, 25)

1 row created

SQL>/

Enter value for prono:6

Enter value for proname: geometric box

Enter value for rate:0

Enter value for avail qty:4

Old 1:insert into inventory master values(&prono, '&proname', &rate, &avail qty)

New 1:insert into inventory master values(6, 'geometric box',0,4)

*

/*** 10. IMPLEMENTATION OF TRIGGERS ***/

ERROR at line 1

ORA-20001:invalid rate value

ORA-06512:at "14BSCA01.INV MASTER TRIGGER",line3

ORA-04088:error during execution of trigger'14BSCA01.INV_MASTER_TRIGGER'

SQL>select * from inventory master;

PRONO	PRONAME	RATE	AVAIL_QYT
1	rice	40	45
2	pen	20	36
3	eraser	2	4
5	pencil	2.5	25

SQL> edit trigger2

Create or replace trigger inv trans trigger

Before insert or update on inventory_trans for each row

Begin

If(:new.pur rate<=0)then

Raise application error(-20001,'invalid purchase quantity');

End if:

End;

/

SQL> @ trigger2

Trigger created.

SQL>insert into inventory trans values(&prono,'&purchase date',&pur qty);

Enter value for prono:1

Enter value for purchasedate:26-sep-16

Enter value for pur qty:0

Old 1:insert into inventory trans values(&prono, '&purchase date',&pur qty)

New 1:insert into inventory trans values(1,'26-sep-16,0)

*

ERROR at line 1

ORA-20001:invalid purchase quantity

ORA-06512:at "14BSCA01.INV_TRANS_TRIGGER",line3

ORA-04088:error during execution of trigger'14BSCA01.INV TRANS TRIGGER'

SOL>/

Enter value for prono:1

Enter value for purchasedate:13-oct-16

Enter value for pur qty:3

/*** 10. IMPLEMENTATION OF TRIGGERS ***/

SQL> select * from inventory_tans;

PRONO	PURCHASE_	PUR_QTY
2	27-SEP-16	56
1	13-OCT-16	3

SQL>commit; Commit completed.

SQL>exit

/*** 11. IMPLEMENTATION OF PROCEDURES ***/

```
SQL> set serveroutput on;
declare
a number;
b number;
c number;
procedure findmin(x IN number,y IN number,z OUT number)
IS
begin
if x<y then
z:=x;
else
z:=y;
end if;
end;
begin
a = 23;
b = 45;
findmin(a,b,c);
DBMS_OUTPUT_PUT_LINE('minimum of (23,45):'||c);
end;
SQL>minimum of (23,45):23
SQL>exit
```

/*** 12. STUDENT DATABASE MANAGEMENT SYSTEM ***/

ORACLE Database Creation

SQL> connect

Enter user-name: system

Enter password:

Connected.

SQL> create table student1 (sno number(3), sname varchar2(20),m1 number(3), m2 n umber(3), m3 number(3));

Table created.

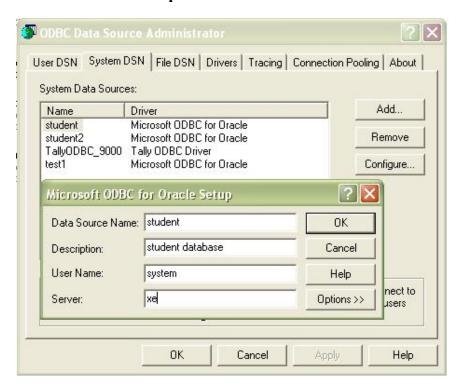
SQL> desc student;

Name	Null? Type
SNO	NUMBER(10)
SNAME	VARCHAR2(20)
M1	NUMBER(3)
M2	NUMBER(3)
M3	NUMBER(3)

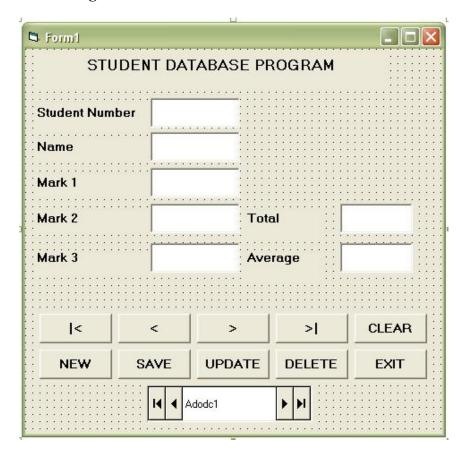
SQL> select * from student;

SNO SNAME	N.	[1	M2	M.
 115 Elizabeth	88	 77	88	
118 Ramu	60	75	65	
111 arun	88	99	77	
112 banu	88	99	77	
113 chitra	99	99	99	

ODBC for Oracle setup



Form Design



CODING IN FRONTEND TO ACCESS BACKEND

Dim con As New ADODB.Connection Dim rs As New ADODB.Recordset

Private Sub cmdclear Click()

Text1 = ""

Text2 = ""

Text3 = ""

Text4 = ""

Text5 = ""

Text6 = ""

Text7 = ""

Text1.SetFocus

End Sub

Private Sub cmddelete_Click()

rs.Delete

MsgBox "Record Deleted"

End Sub

Private Sub cmdexit_Click()

End

End Sub

Private Sub cmdfirst Click()

rs.MoveFirst

Call display

End Sub

Private Sub cmdlast_Click()

rs.MoveLast

Call display

End Sub

Private Sub cmdnew_Click()

Call cmdclear Click

End Sub

Private Sub cmdnext_Click()

rs.MoveNext

If rs.EOF Then

MsgBox "Last Record"

Exit Sub

Else

Call display

End If

End Sub

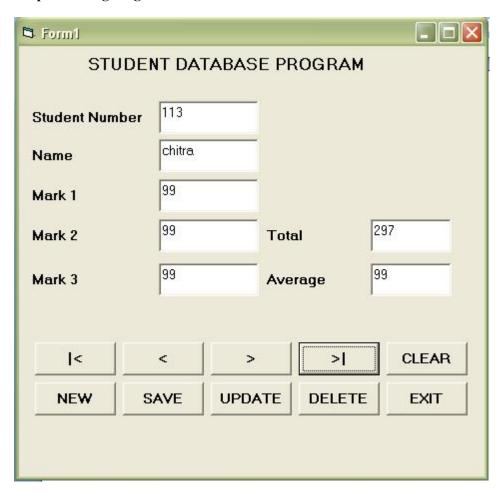
Private Sub cmdprevious_Click()

rs.MovePrevious

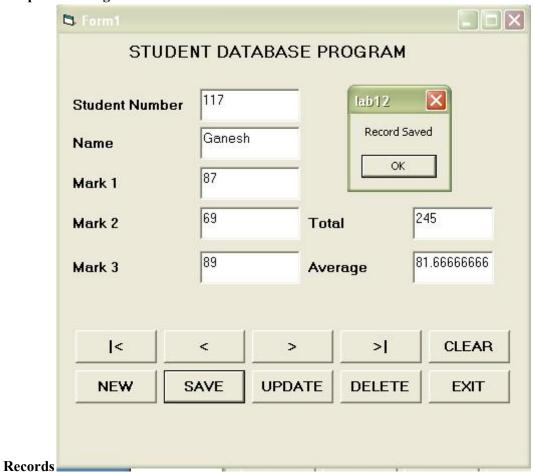
```
If rs.BOF Then
MsgBox "First Record"
Exit Sub
Else
Call display
End If
End Sub
Private Sub cmdsave Click()
rs.AddNew
rs.Fields(0) = Text1
rs.Fields(1) = Text2
rs.Fields(2) = Text3
rs.Fields(3) = Text4
rs.Fields(4) = Text5
strsql = "insert into student(sno,sname,m1,m2,m3) values(" & rs.Fields(0).Value & ",
"" & rs.Fields(1).Value & ""," & rs.Fields(2).Value & ""," & rs.Fields(3).Value & ",
" & rs.Fields(4).Value & "")"
Set rs = con.Execute(strsql)
MsgBox "Record Saved"
End Sub
Private Sub cmdupdate Click()
rs.Fields(0) = Text1
rs.Fields(1) = Text2
rs.Fields(2) = Text3
rs.Fields(3) = Text4
rs.Fields(4) = Text5
rs.Update
MsgBox "Record Updated"
End Sub
Private Sub Form Load()
con.Open "student", "system", "manager"
rs.Open "select * from student", con, adOpenDynamic, adLockOptimistic
Adodc1.Visible = False
End Sub
Private Sub Text5 Change()
Text6 = Val(Text3) + Val(Text4) + Val(Text5)
Text7 = Val(Text6) / 3
End Sub
Public Sub display()
Text1.Text = rs.Fields("sno")
Text2 = rs.Fields(1)
Text3 = rs.Fields(2)
Text4 = rs.Fields(3)
Text5 = rs.Fields(4)
End Sub
```

/** OUTPUT - STUDENT DATABASE MANAGEMENT SYSTEM **/

Output – Navigating Records



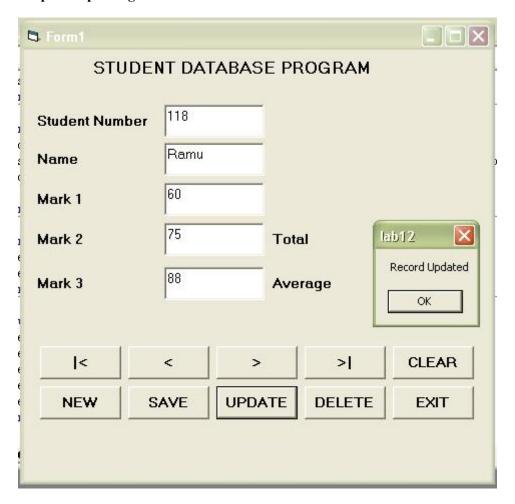
Output – Adding new



SQL> select * from student;

SNO SNAME	M1		M2	M3
115 Elizabeth	88	77	88	
118 Ramu	60	75	65	
114 dworthy	88	88	88	
117 Ganesh	87	69	89	
111 arun	88	99	77	
112 banu	88	99	77	
113 chitra	99	99	99	

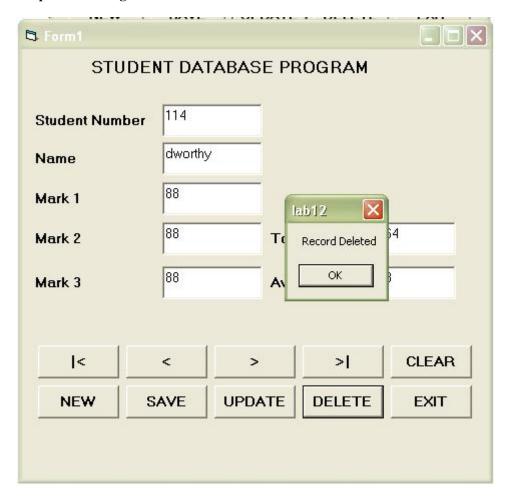
Output – Updating a Record



SQL> select * from student;

SNO SNAME	N	11	M2	M3
115 Elizabeth	88	77	88	
118 Ramu	60	75	88	
114 dworthy	88	88	88	
117 Ganesh	87	69	89	
111 arun	88	99	77	
112 banu	88	99	77	
113 chitra	99	99	99	

Output – Deleting a Record



SQL> select * from student;

SNO SNAME	M	11	M2	M3
115 Elizabeth	88	77	88	
118 Ramu	60	75	88	
117 Ganesh	87	69	89	
111 arun	88	99	77	
112 banu	88	99	77	
113 chitra	99	99	99	