



SREE NARAYANA GURU COLLEGE

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A Premier Post Graduate and Research Co-Educational Institution
K.G.Chavadi, Coimbatore -641 105.



III BCA

CORE LAB 6: PROGRAMMING LAB-VB & ORACLE (53P)



PRACTICAL RECORD
DEPARTMENT OF COMPUTER SCIENCE
2024-2025

**DEPARTMENT OF COMPUTER SCIENCE
SREE NARAYANA GURU COLLEGE
K.G. CHAVADI, COIMBATORE – 641 105**

CERTIFICATE

REGISTER NUMBER

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This is to certify that the bonafide record work done by _____ of
III BCA in the Computer Lab of the College during the year 2024-2025.

Staff In-charge

Head of the Department

Submitted for the Bharathiar University examination held on at Sree Narayana
Guru College, Coimbatore – 641105.

Internal Examiner

External Examiner

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PROGRAMMING LAB-VB & ORACLE

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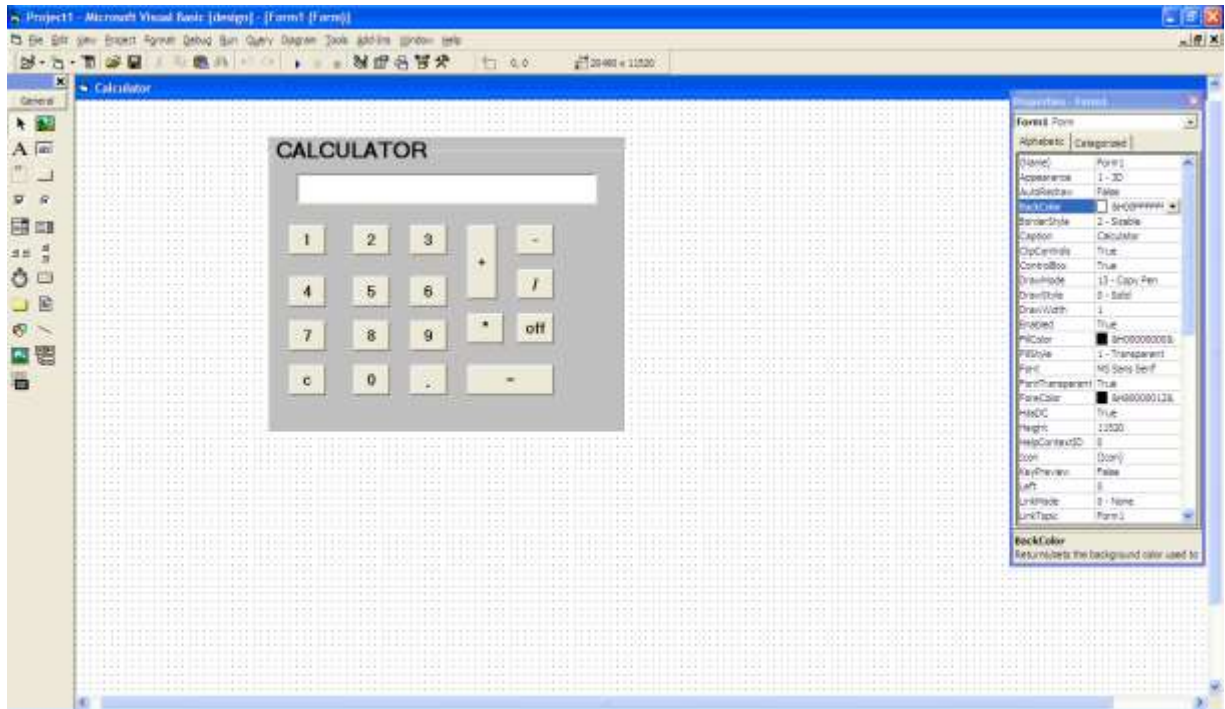
VB & ORACLE

Ex.No: 1

DEVELOPING A CALCULATOR WITH BASIC OPERATION

Date:

FROM DESIGN:



CODING:

```
Option Explicit  
Dim a As Double  
Dim b As Double  
Dim op As String  
Dim cleardisplay As Boolean
```

```
Private Sub add_Click()  
a = Val(display.Text)  
op = "+"  
display.Text = ""  
End Sub  
Private Sub clear_Click()  
display.Text = ""  
End Sub
```

```
Private Sub digit_Click(Index As Integer)  
If cleardisplay Then  
display.Text = ""  
cleardisplay = False
```

```
End If
display.Text = display.Text + digit(Index).Caption
End Sub
```

```
Private Sub div_Click()
a = Val(display.Text)
op = "/"
display.Text = ""
End Sub
```

```
Private Sub dot_Click()
If InStr(display.Text, ".") > 0 Then
Exit Sub
Else
display.Text = display.Text + "."
End If
End Sub
```

```
Private Sub equal_Click()
Dim result As Double
b = Val(display.Text)
If op = "+" Then
result = a + b
End If
If op = "-" Then
result = a - b
End If
If op = "*" Then
result = a * b
End If
If op = "/" And b <> "0" Then
result = a / b
End If
display.Text = result
End Sub
```

```
Private Sub Form_Load()
End Sub
```

```
Private Sub mul_Click()
a = Val (display.Text)
```

```
op = "*"
display. Text = ""
End Sub
```

```
Private Sub off_Click()
End
End Sub
```

```
Private Sub sub_Click()
a = Val (display. Text)
op = "_"
display. Text = ""
End Sub
```

OUTPUT



RESULT:

**Ex.No: 2 VB PROGRAM USING LOOPS AND DECISION-MAKING
STATEMENT**

Date:

CODING:

```
Private Sub Command1_Click()  
Dim f As Integer, s As Integer, ans As Integer, n As Integer  
Dim cnt As Integer  
n = Val(Text1.Text)  
ans = 0  
f = 0  
s = 1  
List1.AddItem f  
List1.AddItem s  
cnt = 2  
While (cnt < n)  
ans = f + s  
List1.AddItem ans  
f = s  
s = ans  
cnt = cnt + 1  
Wend  
End Sub
```

```
Private Sub Command2_Click()  
List1.Clear  
Text1.Text = ""  
End Sub
```

```
Private Sub Command3_Click()  
End  
End Sub
```

FORM DESIGN & OUTPUT

The screenshot shows the Visual Studio IDE with a form titled "Project1 - Form1 (Form)". The form itself is titled "Fibonacci Series" and contains the following elements:

- A text box at the top for user input.
- A red rectangular button labeled "Fibonacci Series" in the center.
- A list box labeled "List1" below the button.
- A cyan rectangular button labeled "Clear" at the bottom left.
- A cyan rectangular button labeled "Exit" at the bottom right.

The screenshot shows the "Fibonacci Series" form running. The text box contains the number "5". The "Fibonacci Series" button is highlighted. The "List1" list box displays the following sequence of numbers:

- 0
- 1
- 1
- 2
- 3

The "Clear" and "Exit" buttons are visible at the bottom.

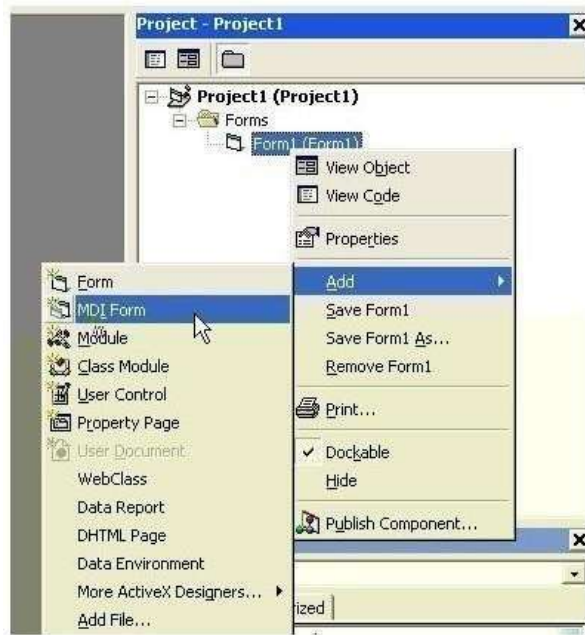
RESULT:

Ex.No: 3

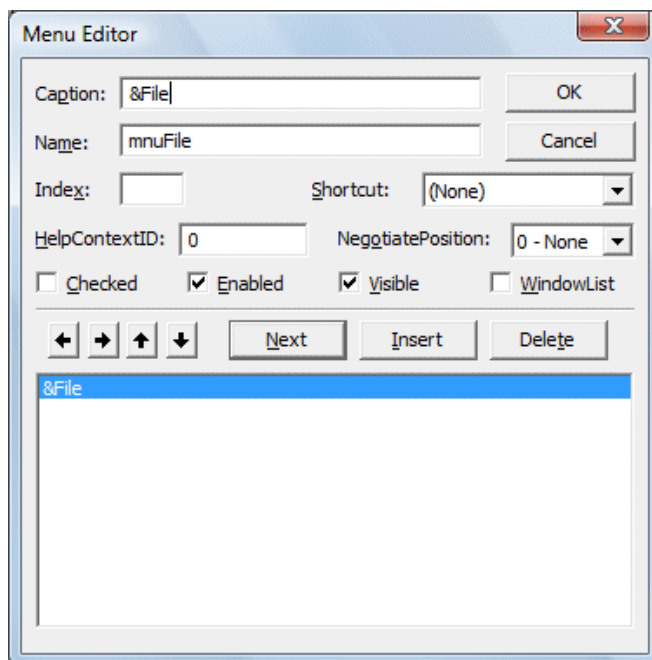
**VB PROGRAM TO DEVELOP A MENU DRIVEN
PROGRAM**

Date:

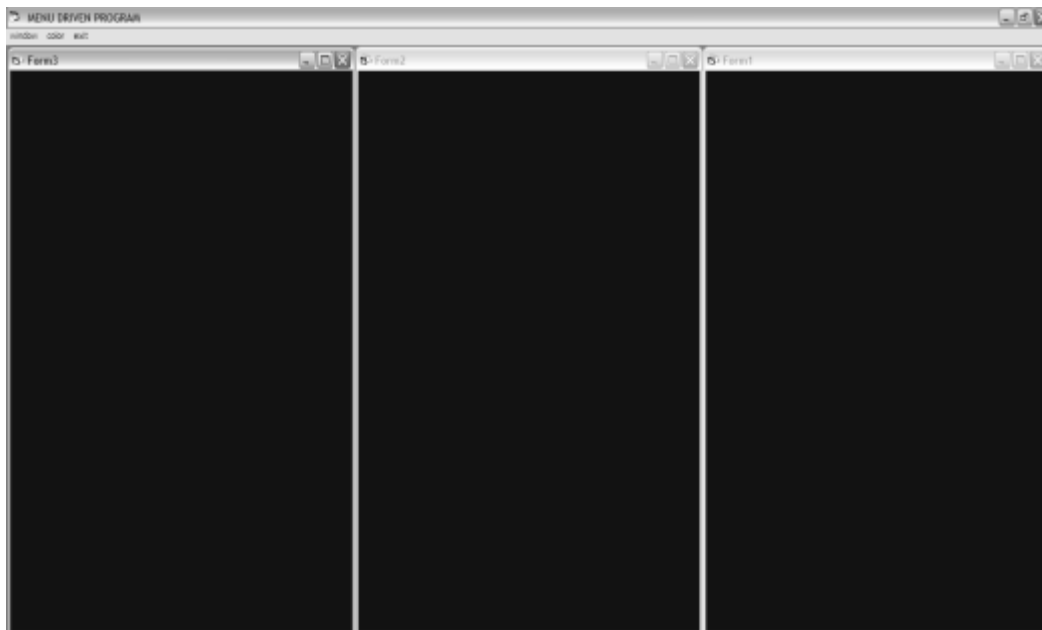
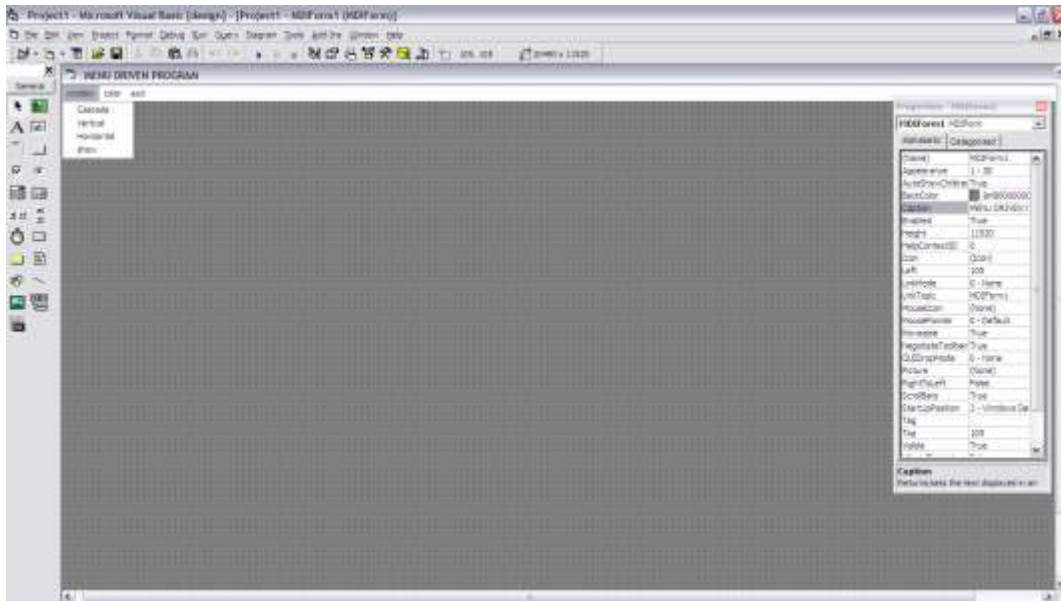
HOW TO ADD MDI FORM:



MENU EDITOR:



OUTPUT:



RESULT:

Ex.No: 4

**TO DISPLAY FILES USING DRIVELISTBOX,DIRLISTBOX
AND FILELISTBOX**

Date:

CODING:

```
Private Sub Dir1_Change ()
```

```
File1.Path = Dir1.Path
```

```
End Sub
```

```
Private Sub Drive1_Change ()
```

```
Dir1.Path = Drive1.Drive
```

```
End Sub
```

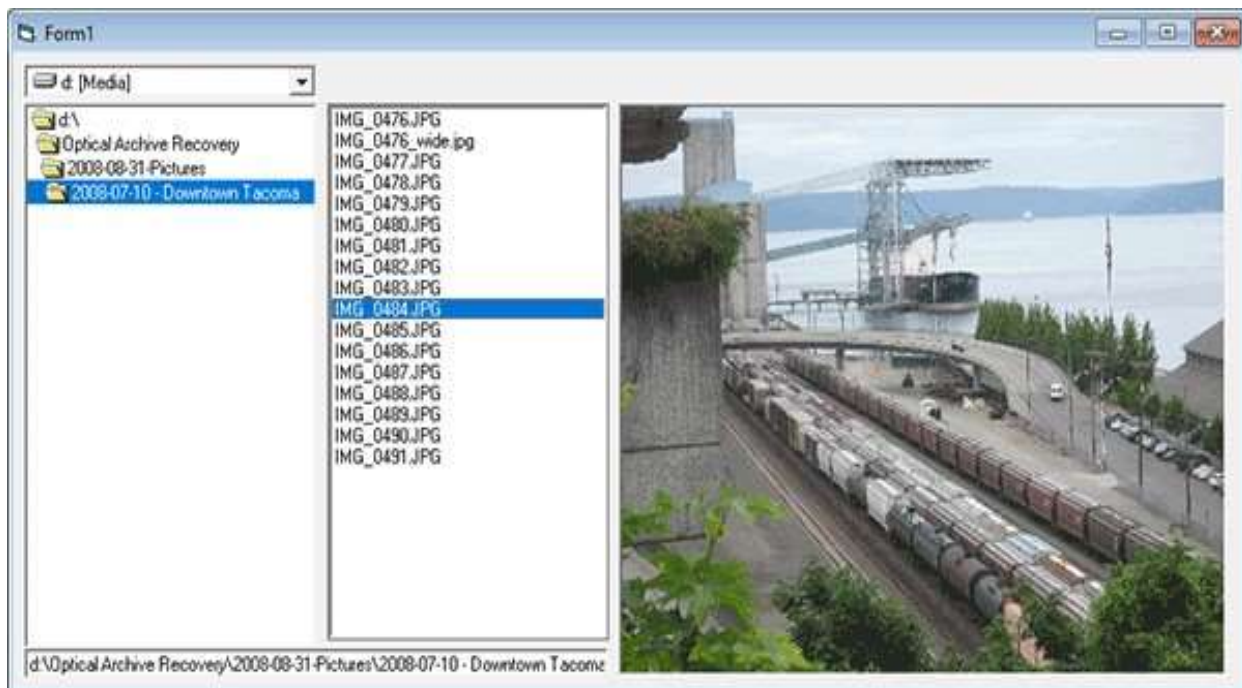
```
Private Sub File _ Click ()
```

```
Label1.Caption = File1.Path + "\" + File1.FileName
```

```
Image1.Picture = LoadPicture (Label1.Caption)
```

```
End Sub
```

OUTPUT:



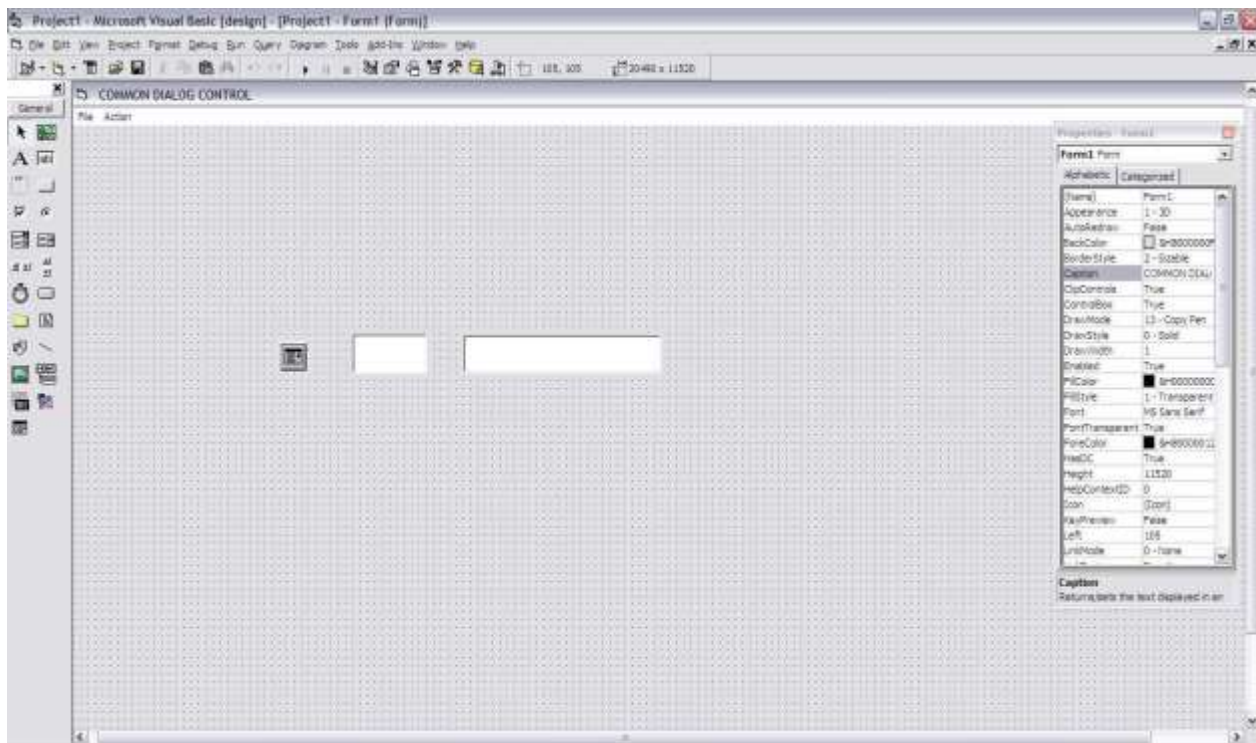
RESULT:

Ex.No: 5

COMMON DIALOG CONTROL

Date:

FORM DESIGN:



CODING:

```
Private Sub mnuclose_Click()  
End  
End Sub
```

```
Private Sub mnucolor_Click()  
cd.ShowColor  
rt.BackColor = cd.Color  
Text1.ForeColor = cd.Color  
End Sub
```

```
Private Sub mnufontsize_Click()  
cd.Flags = cd.ICFBoth  
cd.ShowFont  
Text1.FontSize = cd.FontSize  
End Sub
```

```
Private Sub mnunew_Click()  
rt.Text = " "  
End Sub
```

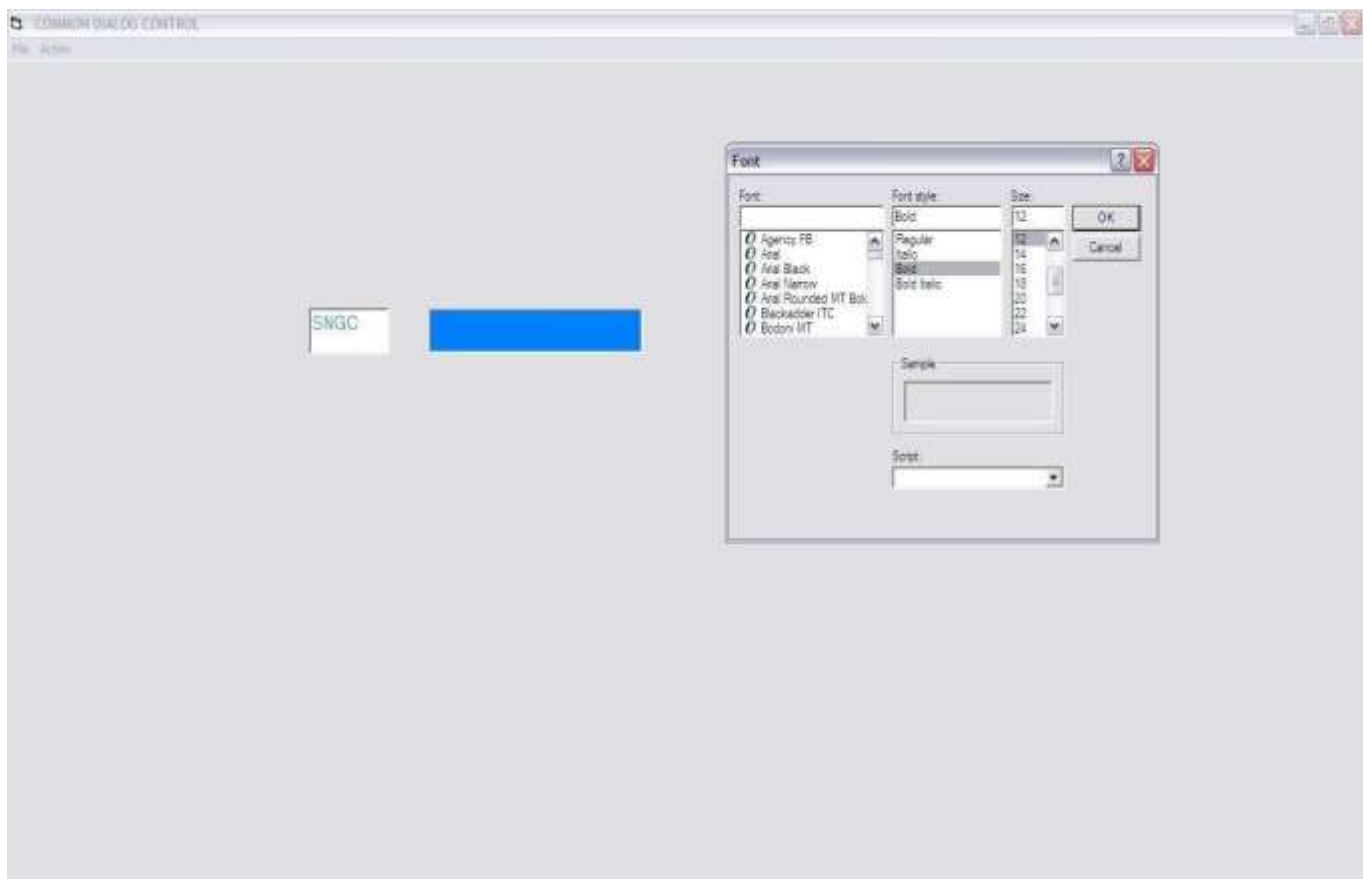
```
Private Sub mnuopen_Click()  
cd.ShowOpen  
If cd.FileName <> "" Then
```

```
rt.LoadFile cd.FileName  
End if  
End sub
```

```
Private Sub mnuprinter_Click()  
cd.ShowPrinter  
End Sub
```

```
Private Sub mnusave_Click()  
cd.ShowSave  
If cd.FileName <> "" Then  
rt.SaveFile cd.FileName  
End if  
End sub
```

OUTPUT:



RESULT:

Ex. No:6

VB ANIMATION USING TIMER

Date:

PROGRAM:

```
Private Sub Timer1_Timer ()  
    If Image1.Visible = True Then  
        Image1.Visible = False  
        Image2.Visible = True  
    ElseIf Image2.Visible = True Then  
        Image2.Visible = False  
        Image1.Visible = True  
    End If  
End Sub
```

OUTPUT:



RESULT:

Ex No: 07

NUMBER CONVERSION

DATE:

PROGRAM:

```
Dim number As Integer
```

```
Private Sub Command1_Click ()  
Dim bs As String  
number = Val(Text1.Text)  
bs = ""  
While number > 0  
bs= number Mod 2 & bs  
number = number \ 2  
Wend  
Text2.Text = bs  
End Sub
```

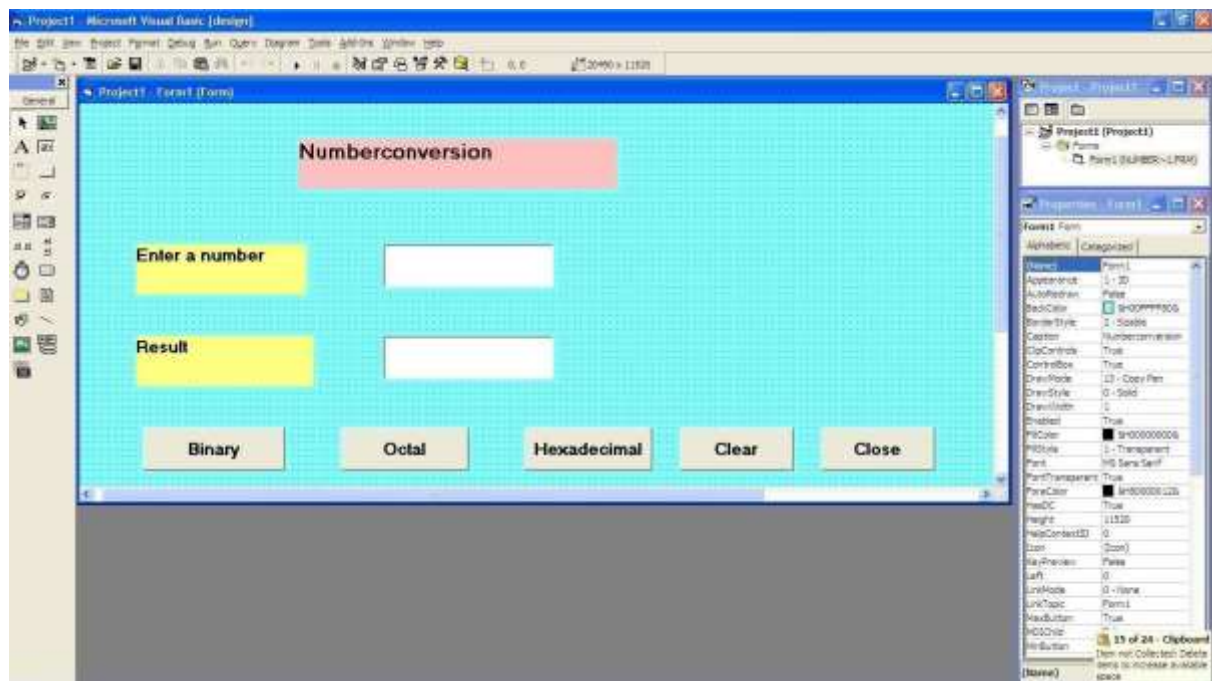
```
Private Sub Command2_Click ()  
Dim os As String  
number = Val(Text1.Text)  
os =Oct(number)  
Text2.Text = os  
End Sub
```

```
Private Sub Command3_Click ()  
Dim hs As String  
number = Val(Text1.Text)  
hs=Hex(number)  
Text2.Text = hs  
End Sub
```

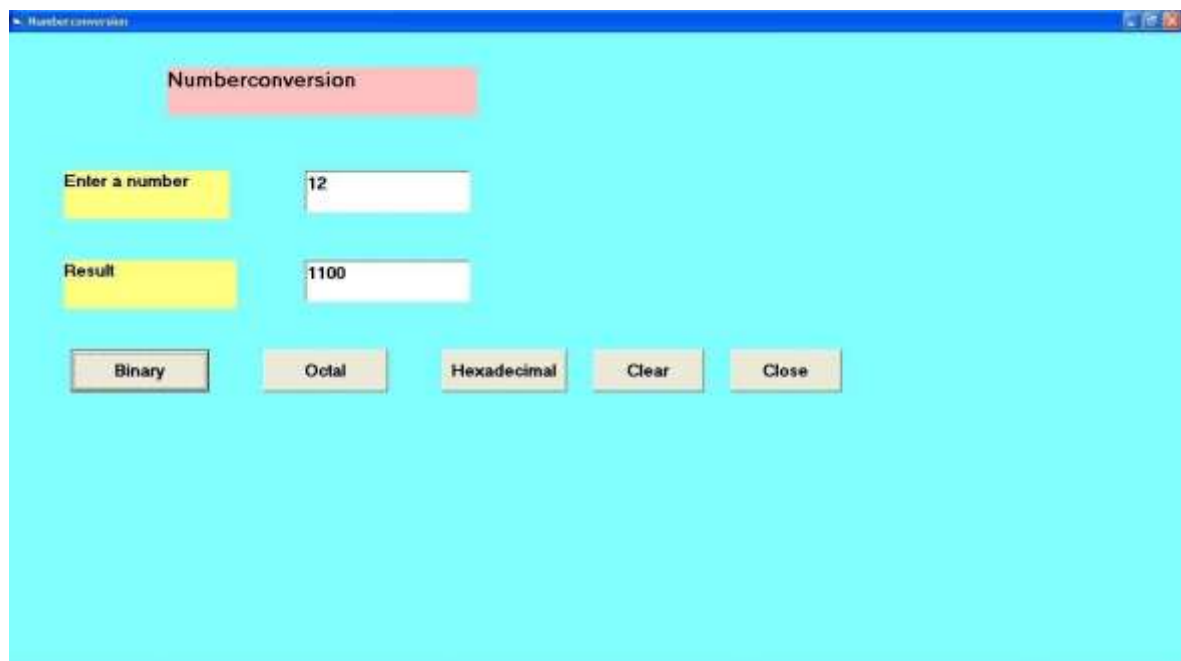
```
Private Sub Command4_Click ()  
Text1.Text = ""  
Text2.Text = ""  
End Sub
```

```
Private Sub Command5_Click ()  
End  
End Sub
```

FORM DESIGN:



OUTPUT:



RESULT:

Ex No: 08

EMPLOYEE DETAILS

DATE:

PROGRAM:

```
SQL> create table emp1(empno number (5),empname varchar2(20),desi varchar2(20),  
gender varchar (10), age number (3), doj date, Sal number (5));
```

Table created.

```
SQL> desc emp1;
```

Name	Null?	Type
EMPNO		NUMBER (5)
EMPNAME		VARCHAR2(20)
DESIGNATION		VARCHAR2(20)
GENDER		VARCHAR2(10)
AGE		NUMBER (3)
DOJ		DATE
SALARY		NUMBER (6)

```
SQL > insert into emp1 values (1001, 'Paul','Manager','Male',30,'1-Jan-2013',30000);
```

1 row created

```
SQL > insert into emp1 values (1002, 'Ram','Assistant Manager', 'Male', 30, '12-Jan2013',25000);
```

1 row created

```
SQL > insert into emp1 values (1003, 'Binoy','Assistant Manager', 'Male', 30, '15-Feb2013',  
20000);
```

1 row created

```
SQL > insert into emp1 values (1004, 'Anoop','Assistant Manager', 'Male', 30, '18-Mar2013',  
25000);
```

1 row created

```
SQL > insert into emp1 values (1005, 'Jayashree','Supervisor', 'Female', 32, '23-Mar2013',  
22000);
```

1 row created

SQL > select * from emp1;

Emp_name	empno	desi	gen	age	doj	sal
Paul	1001	Manager	Male	30	01-Jan-2013	30000
Ram	1002	Assi.Manager	Male	30	12-Jan-2013	25000
Binoy	1003	Assi.Manager	Male	30	15-Feb-2013	20000
Anoop	1004	Assi.Manager	Male	30	18-Mar-2013	25000
Jayashree	1005	Supervisor	Female	32	23-Mar-2013	22000

SQL > select * from emp1 where Emp_name ='Paul';

Emp_name	empno	desi	gen	age	doj	sal
Paul	1001	Manager	Male	30	01-Jan-2013	30000

SQL > select * from emp1 where Emp_name not in ('Paul','Binoy','Anoop');

Emp_name	empno	desi	gen	age	doj	sal
Ram	1002	Assi.Manager	Male	30	12-Jan-2013	25000
Jayashree	1005	Supervisor	Female	32	23-Mar-2013	22000

SQL > select * from emp1 where sal < 25000;

Emp_name	empno	desi	gen	age	doj	sal
Paul	1001	Manager	Male	30	01-Jan-2013	30000

SQL > select * from emp1 where doj between '01-March-2013' and '31-March-2013';

Emp_name	empno	desi	gen	age	doj	sal
Anoop	1004	Assi.Manager	Male	30	18-Mar-2013	25000
Jayashree	1005	Supervisor	Female	32	23-Mar-2013	22000

SQL > select * from emp1 order by sal;

<u>Emp_name</u>	<u>empno</u>	<u>desi</u>	<u>gen</u>	<u>age</u>	<u>doj</u>	<u>sal</u>
Binoy	1003	Assi.Manager	Male	30	15-Feb-2013	20000
Jayashree	1005	Supervisor	Female	32	23-Mar-2013	22000
Ram	1002	Assi.Manager	Male	30	12-Jan-2013	25000
Anoop	1004	Assi.Manager	Male	30	18-Mar-2013	25000
Paul	1001	Manager	Male	30	01-Jan-2013	30000

RESULT:

Ex No: 9

INVENTORY TABLE

Date:

.

PROGRAM:

```
SQL> create table invent (prono number (5), proname varchar2(20), rate number (4,2));
```

Table created

```
SQL> insert into invent values(1,'file',60);
```

1 row created

```
SQL> insert into invent values(2,'folder',35);
```

1 row created

```
SQL> insert into invent values(3,'register',40);
```

1 row created

```
SQL> select * from invent
```

<u>PRONO</u>	<u>PRONAME</u>	<u>RATE</u>
1	FILE	60
2	FOLDER	40
3	REGISTER	35

```
SQL> declare
```

```
2 begin
```

```
3 update invent
```

```
4 set rate=rate*120/100;
```

```
5 end;
```

```
/
```

PL/SQL procedure successfully completed.

SQL> select * from invent;

<u>PRONO</u>	<u>PRONAME</u>	<u>RATE</u>
1	FILE	72
2	FOLDERS	42
3	REGISTERS	48

SQL> alter table invent add (noitem number (4), place varchar2(10));

Table altered.

SQL> select * from invent;

<u>PRONO</u>	<u>PRONAME</u>	<u>RATE</u>	<u>NOITEM</u>	<u>PLACE</u>
1	FILE	72		
2	FOLDER	42		
3	REGISTER	48		

SQL> update invent set noitem = 6, place = 'Palakkad' where
prono=1;

1 row created

SQL> update invent set noitem = 7, place = 'Coimbatore' where
prono=2;

1 row created

SQL> update invent set noitem = 8, place = 'Chavadi' where
prono=3;

1 row created

SQL> select * from invent;

<u>PRONO</u>	<u>PRONAME</u>	<u>RATE</u>	<u>NOITEM</u>	<u>PLACE</u>
1	FILE	72	6	Palakkad
2	FOLDER	42	7	Coimbatore
3	REGISTER	48	8	Chavadi

RESULT:

Ex No: 10

INVENTORY MANAGEMENT SYSTEM

DATE:

PROGRAM:

```
SQL> create table masint(storied number(5) primary key, location varchar2(25) not null, manager  
varchar2(25));
```

Table created

```
SQL> create table transint(storied number(5) references masint(storied), type varchar2(20), capacity  
number(5));
```

Table created

```
SQL> Commit;
```

Commit completed

```
SQL> set serveroutput on;
```

```
Create or replace trigger inv_trig
```

```
Before insert on transint
```

```
For each row
```

```
When(new.capacity>10000)
```

```
Begin
```

```
Raise_application_error(-20300,'capacity over limit');
```

```
End;
```

```
/
```

Trigger created successfully

```
SQL>Commit;
```

Commit complete

```
SQL> insert into masint values(123,'cbe','ram');
```

1 row created

```
SQL> insert into masint values(124,'blr','sugan');
```

1 row created

```
SQL> insert into transint values(123,'chn',500);
```

```
1 row created
```

```
SQL> insert into transint values(124,'abc',1500);
```

```
1 row created
```

```
SQL> insert into transint values(123,'bbb',9875);
```

```
1 row created
```

```
SQL> insert into transint values(124,'xyz',10500);
```

```
Insert into transint values(124,'xyz',10500) ERROR at
```

```
line 1:
```

```
ORA-20300: CAPACITY IS OVER THE LIMIT
```

```
ORA-06512: AT "SCOTT INV_TRIG", LINE2
```

```
ORA-04088: ERROR DURING EXECUTION OF THE TRIGGER 'SCOTT.INV_TRIG'
```

```
SQL> commit;
```

```
Commit complete.
```

RESULT:

Ex No: 11

BANK ACCOUNT TABLE

Date:

PROGRAM:

SQL> create table bank (accno number (8) primary key, dept number (6) not null, balance number(6));

Table created

SQL> insert into bank values (1011,0,10000);

1 row created

SQL> insert into bank values (1012,10220,10000);

1 row created

SQL> insert into bank values (1013,10420,15000);

1 row created

SQL> insert into bank values (1014,3000,12000);

1 row created

SQL> insert into bank values (1015,3500,12500);

1 row created

SQL> commit;

Commit complete.

SQL> select * from bank;

<u>ACCNO</u>	<u>DEPT</u>	<u>BALANCE</u>
1011	0	10000
1012	10220	10000
1013	10420	15000
1014	3000	12000
1015	3500	12500

SQL> Set serveroutput on;

SQL> declare

2. Less_dept exception
3. Deposit_amt bank.dept%type;
4. Begin
5. Select dept
6. Into deposit_amt

```
7. From bank
8. Where accno=&acc_id;
9. if deposit_amt<=0 then
10. raise less_dept;
11. else
12. dbms_output.put_line('deposit amount=' || deposit_amt);
13. end if;
14. exception
15. when less_dept then
16. dbms_output.put_line('invalid deposit amount');
17. end;
18. /
```

OUTPUT:

```
Enter value for acc_id:1011
Old 8 : where accno=&acc_id;
New 8 : where accno=1011;
Invalid deposit amount
PL/SQL procedure successfully completed
Enter value for acc_id : 1015
Old 8 : where accno=&acc_id;
New 8 : where accno=1015;
Deposit amount = 3500
PL/SQL procedure successfully completed
SQL> Commit;
Commit complete
```

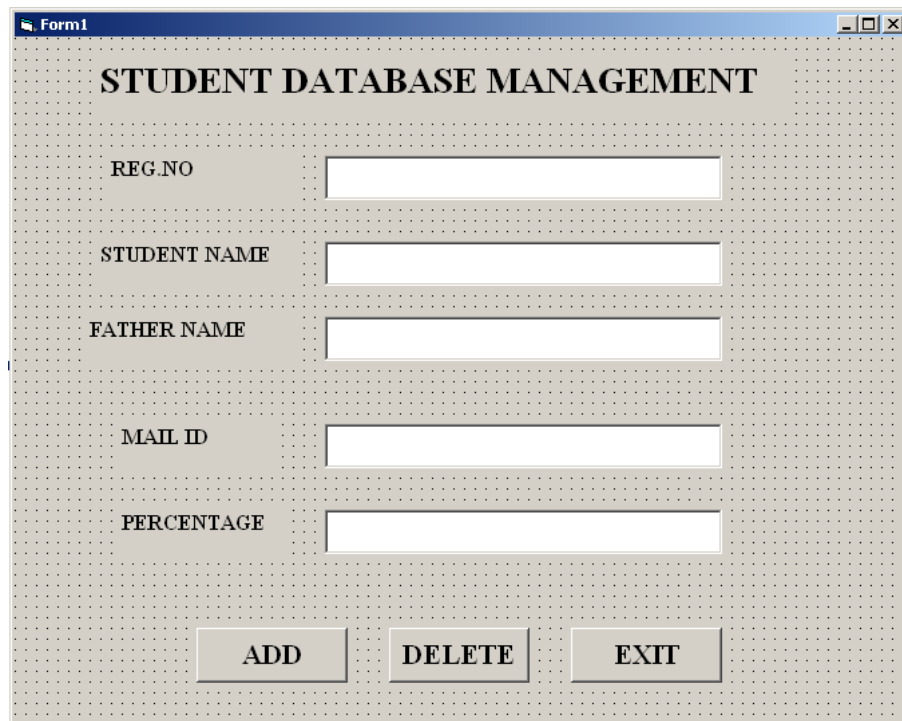
RESULT:

Ex No: 12

STUDENT DATABASE MANAGEMENT

DATE:

FROM DESIGN:



Form1

STUDENT DATABASE MANAGEMENT

REG.NO

STUDENT NAME

FATHER NAME

MAIL ID

PERCENTAGE

ADD DELETE EXIT

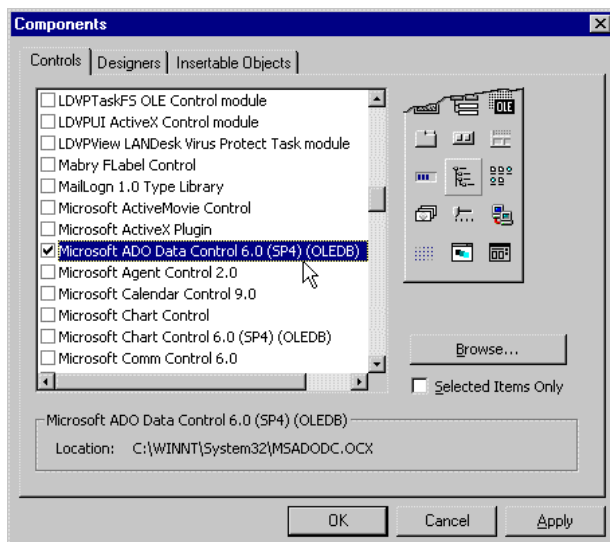
CODING:

ORACLE CODE:

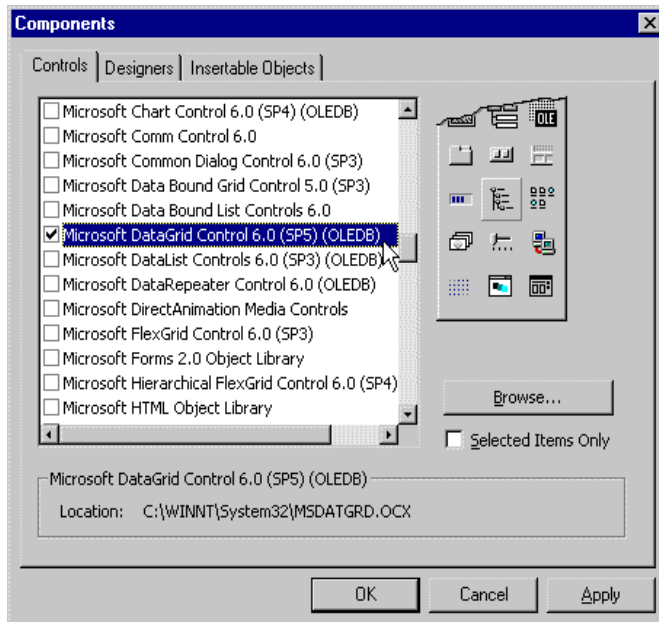
Create table student (regno number (3), stname varchar2(25),
fathername varchar2(20), mailid varchar2(40), percentage number
(3,2));

VIUSAL BASIC:

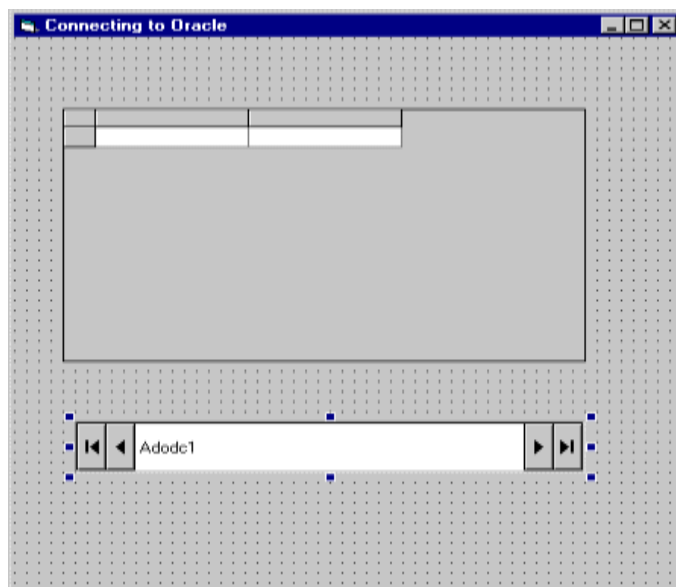
1. Adding ADO component in tool box



2.Adding data grid control in tool box

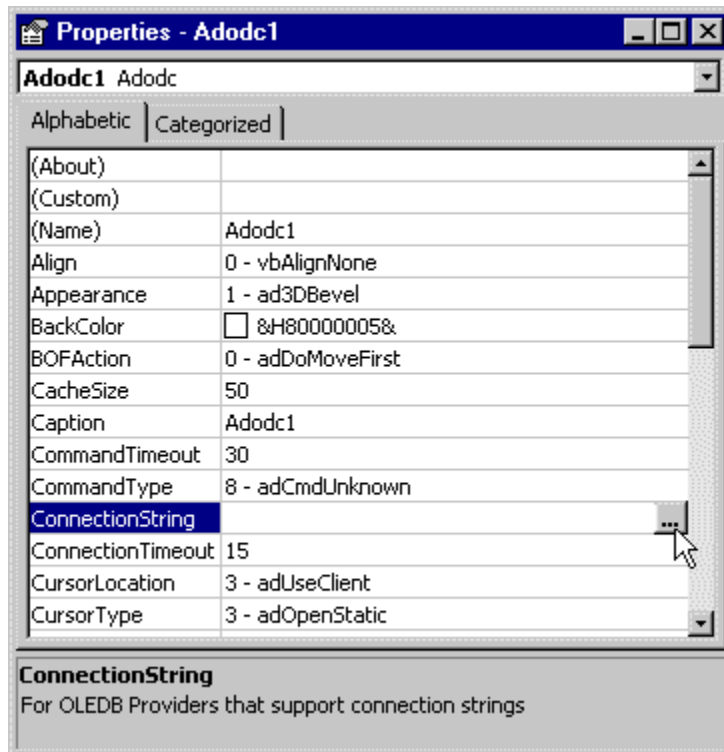


3.Adding Adodc control in the form

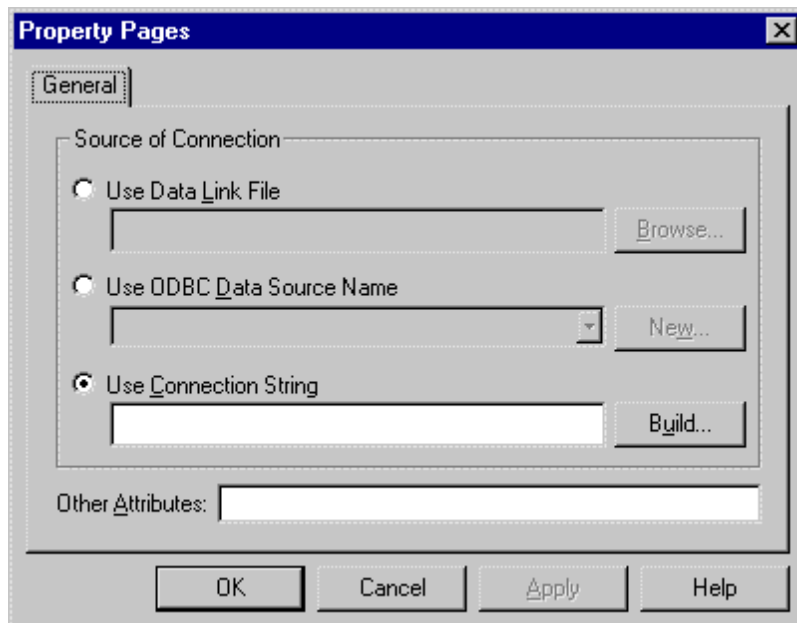


Connection process:

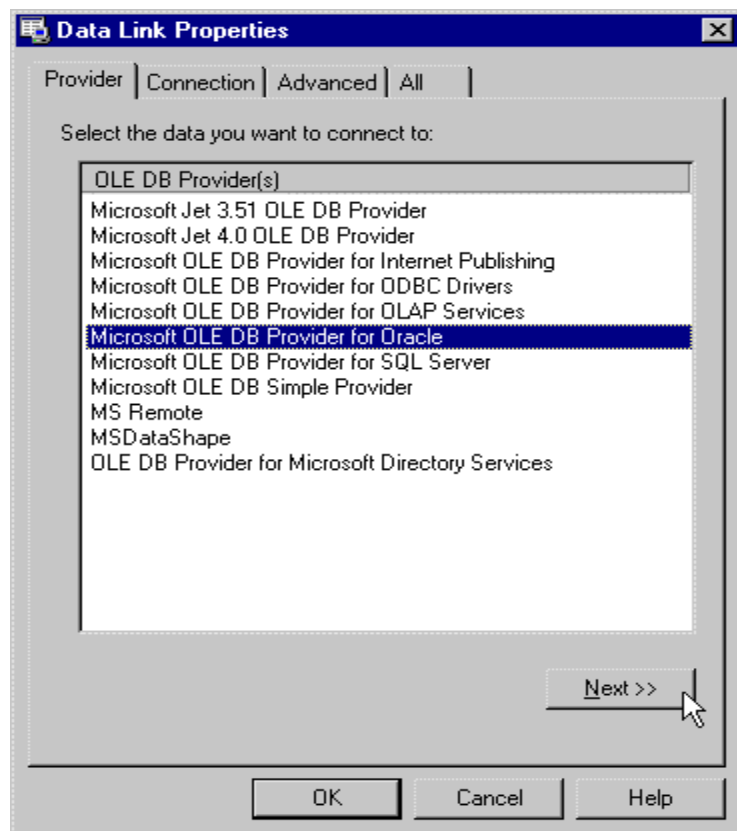
Step1: connect string



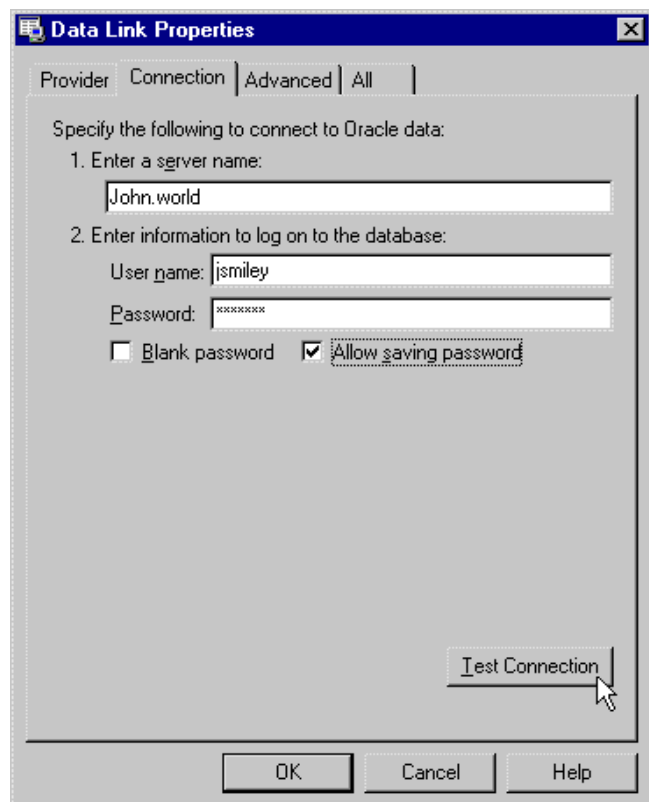
Step 2: connecting database



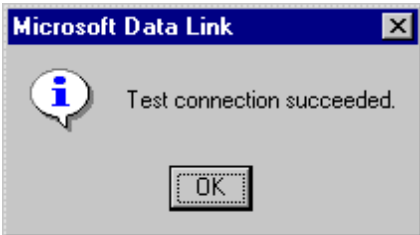
Step 3: linking data provider



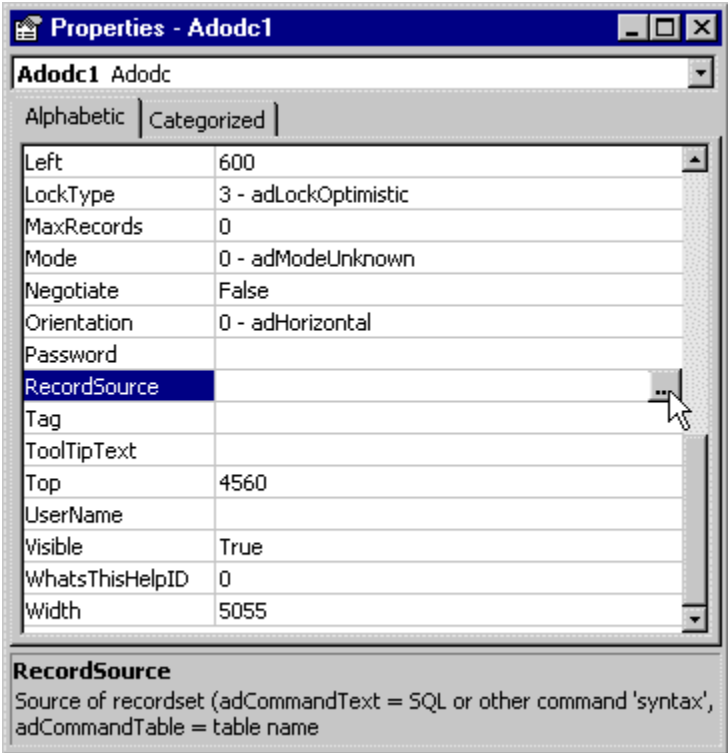
Step 4: data linked checking



Step 5: Test connection result



Step 6: Record source property setting



RESULT: