Ex.No:12	
	DEVELOP A SIMPLE GUI BASED DATABASE APPLICATION
Date:	

AIM:

To develop a simple GUI based database application for Personal Information System.

DESCRIPTION:

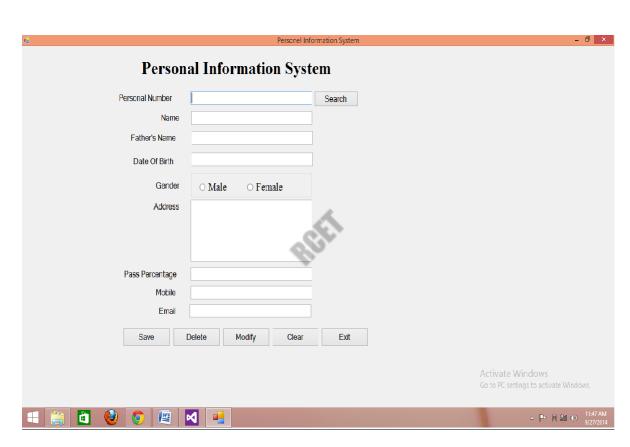
Personal Information System is a project which stores information about a particular person. It allows to insert, delete, modify and clear the records. Records are updated in the database through forms.

DATABASE:

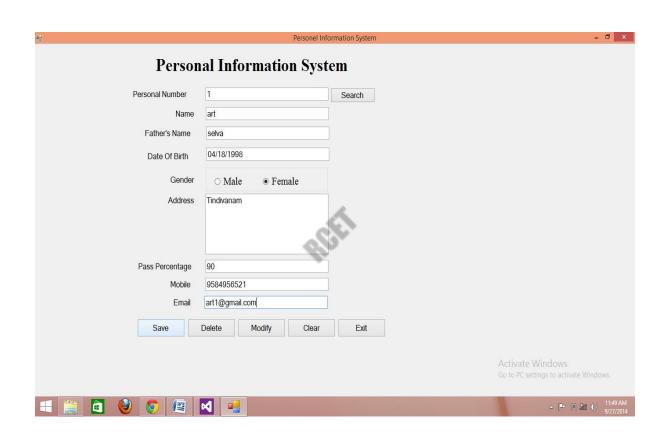
```
CREATE TABLE personaldetail (

pid INT PRIMARY KEY,
name VARCHAR2(40),
father VARCHAR2(40),
DOB DATE,
gender VARCHAR2(6),
address VARCHAR2(200),
mark NUMBER(3,0),
mobile NUMBER(10,0),
email VARCHAR2(20)
)
```

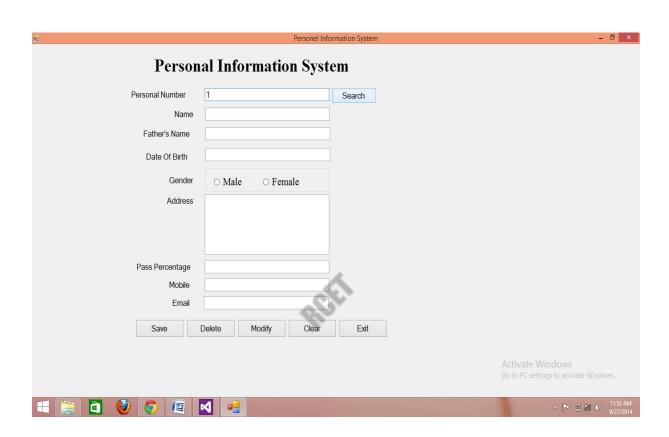
FORMS:



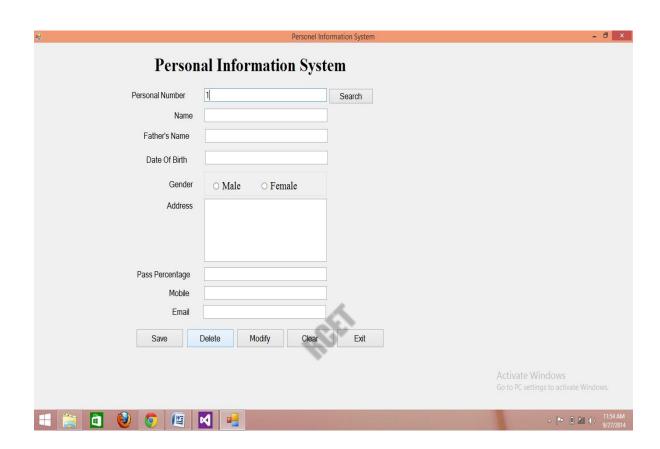
→ TO INSERT THE RECORD CLICK SAVE



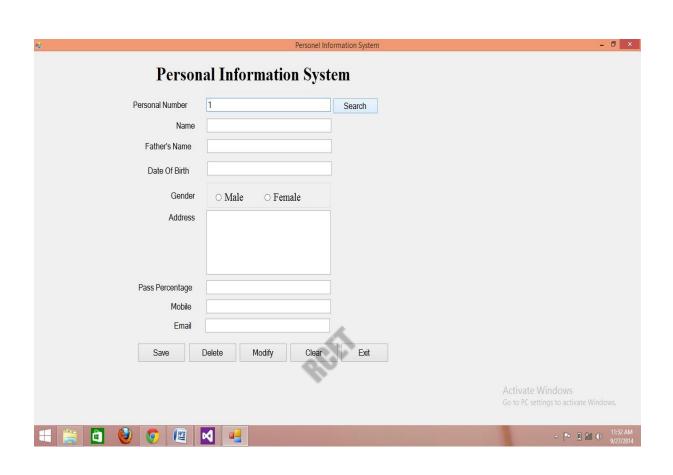
→ TO SEARCH ENTER THE PERSONAL NUMBER AND CLICK SEARCH

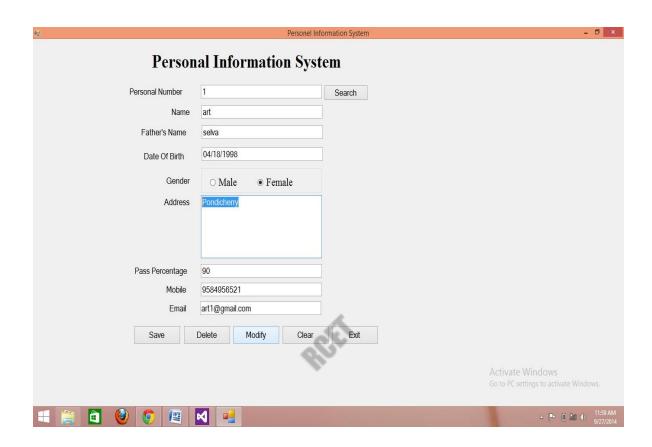


→ TO DELETE ENTER THE PERSONAL NUMBER AND CLICK DELETE

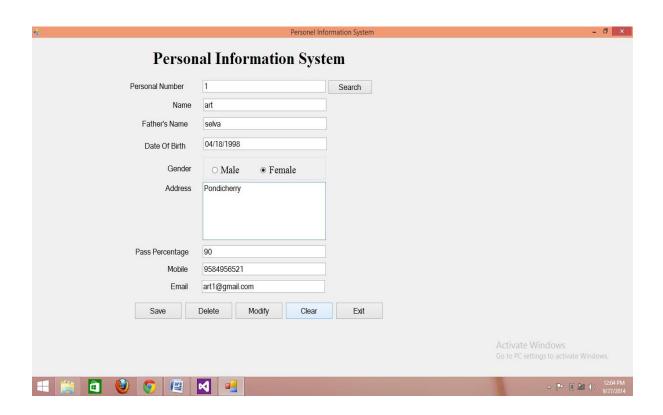


→ TO MODIFY ENTER THE PERSONAL NUMBER AND CLICK SEARCH THEN PERFORM UPDATIONS AND CLICK MODIFY

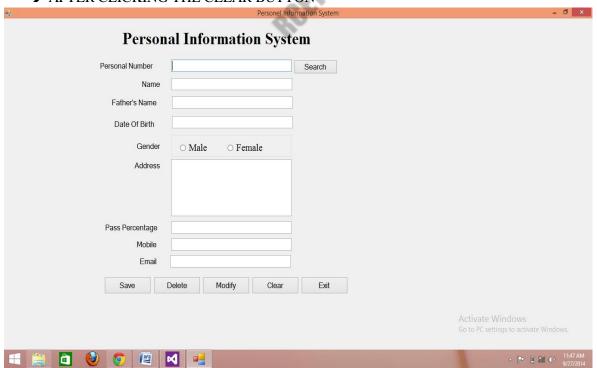




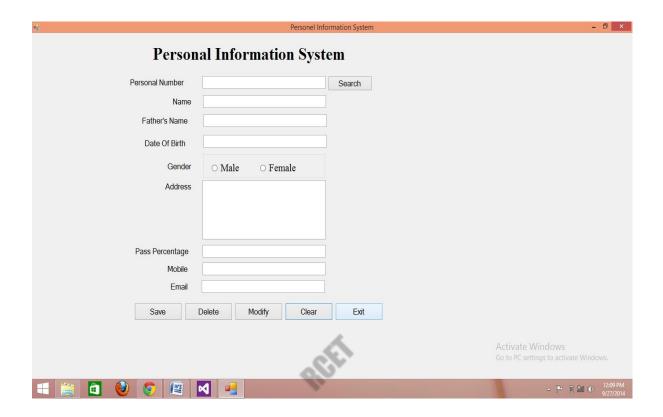
→ TO CLEAR THE BOX CLICK THE CLEAR BUTTON



→ AFTER CLICKING THE CLEAR BUTTON



→ TO EXIT PRESS THE EXIT BUTTON



CODING:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using Oracle.DataAccess.Client;
namespace PersonelInformationSystem
{
    public partial class Form1 : Form
    {
        public Form1()
    }
}
```

```
InitializeComponent();
//CONNECTIVITY CODING
    OracleConnection conn;
    private void Form1 Load(object sender, EventArgs e)
       string oradb = "Data Source=XE;User Id=art;Password=123;";
       conn = new OracleConnection(oradb);
       conn.Open();
//CLEAR FUNCTION
    private void Clear()
       txtPID.Text = "";
       txtName.Text = "";
       txtFather.Text = "":
       txtDOB.Text = "";
       rdoMale.Checked = false;
       rdoFemale.Checked = false;
       txtAddress.Text = "";
       txtMark.Text = "";
       txtMobile.Text = "";
       txtEmail.Text = "";
//INSERTION CODING
    // Do NOT change the order of the parameter and values
    private void btnSave_Click(object sender, EventArgs e)
       string gender = " ";
       if (rdoMale.Checked)
         gender = "Male";
       else if (rdoFemale.Checked)
         gender = "Female";
       DateTime dt = Convert.ToDateTime(txtDOB.Text);
            string
                                           "INSERT
                                                           INTO
                                                                        sankar.personaldetail
            (pid,name,father,dob,gender,address,mark,mobile,email)
                                                                                   VALUES
            (:pid,:name,:father,:dob,:gender,:address,:mark,:mobile,:email)";
       OracleCommand cmd = new OracleCommand(sql, conn);
       cmd.Parameters.Add("pid", txtPID.Text);
       cmd.Parameters.Add("name", txtName.Text);
       cmd.Parameters.Add("father", txtFather.Text);
```

```
cmd.Parameters.Add("dob", dt);
      cmd.Parameters.Add("gender", gender);
      cmd.Parameters.Add("address", txtAddress.Text);
      cmd.Parameters.Add("mark", txtMark.Text);
      cmd.Parameters.Add("mobile", txtMobile.Text);
      cmd.Parameters.Add("email", txtEmail.Text);
      cmd.ExecuteNonQuery();
      MessageBox.Show("inserted sucessfully");
      Clear();
//UPDATION CODING
    // Do NOT change the order of the parameter and values
    private void btnEdit_Click(object sender, EventArgs e)
      string gen = " ";
      if (rdoMale.Checked)
         gen = rdoMale.Text;
      else if (rdoFemale.Checked)
         gen = rdoFemale.Text;
       DateTime dt = Convert.ToDateTime(txtDOB.Text);
            string sql = "UPDATE sankar.personaldetail SET
            name=:name,father=:father,dob=:dob,gender=:gender,address=:address,mark=:mark,
            mobile=:mobile,email=:email WHERE pid=:pid";
      OracleCommand cmd = new OracleCommand(sql, conn);
      cmd.Parameters.Add("name", txtName.Text);
      cmd.Parameters.Add("father", txtFather.Text);
      cmd.Parameters.Add("dob", dt);
      cmd.Parameters.Add("gender", gen);
      cmd.Parameters.Add("address", txtAddress.Text);
      cmd.Parameters.Add("mark", txtMark.Text);
      cmd.Parameters.Add("mobile", txtMobile.Text):
      cmd.Parameters.Add("email", txtEmail.Text);
      cmd.Parameters.Add("pid", txtPID.Text);
      cmd.ExecuteNonQuery();
      MessageBox.Show("Updated successfully");
      Clear();
    }
//DELETION CODING
    private void btnDelete_Click(object sender, EventArgs e)
```

```
OracleCommand cmd = new OracleCommand("DELETE FROM sankar.personaldetail
WHERE
      pid=:pid", conn);
      cmd.Parameters.Add("pid", txtPID.Text);
      cmd.ExecuteNonQuery();
      MessageBox.Show("Message deleted succesfully");
      Clear();
//CLEAR CODING
    private void btnClear_Click(object sender, EventArgs e)
      Clear();
//SEARCH CODING
    private void btnSearch_Click(object sender, EventArgs e)
      OracleCommand cmd = new OracleCommand("SELECT * FROM sankar.personaldetail
WHERE
         pid=:pid1", conn);
      cmd.Parameters.Add("pid1", txtPID.Text);
      OracleDataReader dr = cmd.ExecuteReader();
      if (dr.Read())
         txtPID.Text = dr["pid"].ToString();
         txtName.Text = dr["name"].ToString();
         txtFather.Text = dr["father"].ToString();
         txtDOB.Text = dr["dob"].ToString();
         if (dr["gender"].ToString() == "Male")
                      rdoMale.Checked = true;
         else
                      rdoFemale.Checked = true;
         txtAddress.Text = dr["address"].ToString();
         txtMark.Text = dr["mark"].ToString();
         txtMobile.Text = dr["mobile"].ToString();
         txtEmail.Text = dr["email"].ToString();
      else
         MessageBox.Show("Record not found ");
//EXIT CODING
    private void btnExit_Click(object sender, EventArgs e)
```

```
Close(); } } }
RESULT:
      Thus the Coding was executed successfully.
```