```csharp
using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

using System.Data.SqlClient;


namespace ADO_registration_form

{

    public partial class Form1 : Form

    {

        public Form1()

        {

            InitializeComponent();

        }


        string str = "server=.\\SQLEXPRESS;integrated
```

```csharp
security=true;database=mkp";

        SqlConnection con = null;

        SqlCommand cmd = null;


        private void button1_Click(object sender, EventArgs e)

        {

            try

            {


                string gender = null;

                if (radioButton1.Checked == true)

                    gender = radioButton1.Text;

                else if (radioButton2.Checked == true)

                    gender = radioButton2.Text;


                string hobby = null;

                if (checkBox1.Checked)

                    hobby = checkBox1.Text;

                if (checkBox2.Checked)

                    hobby += "  " + checkBox2.Text;

                con = new SqlConnection(str);




                string qr = "insert into
students(rno,studname,gender,hobby,city,dob) values(@rno,@studname,@gender,
@hobby,@city,@dob)";

                cmd = new SqlCommand(qr, con);

                cmd.Parameters.Add("@rno", SqlDbType.Int).Value =
Convert.ToInt32(textBox1.Text);

                cmd.Parameters.Add("@studname", SqlDbType.VarChar,
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```csharp
20).Value = textBox2.Text;

                cmd.Parameters.Add("@gender", SqlDbType.VarChar, 20).Value
= gender;

                cmd.Parameters.Add("@hobby", SqlDbType.VarChar, 20).Value =
hobby;

                cmd.Parameters.Add("@city", SqlDbType.VarChar, 20).Value =
comboBox1.Text;

                cmd.Parameters.Add("@dob", SqlDbType.VarChar, 20).Value =
dateTimePicker1.Text;




                con.Open();//in connected env. you have to explicitly open
the connection using open method

                cmd.ExecuteNonQuery();

                textBox1.Clear();

                textBox2.Clear();

                textBox1.Focus();

                label8.Text = "record saved succ.";

            }

            catch (Exception ee)

            {

                MessageBox.Show(ee.ToString());

            }

            finally

            {

                con.Close();

            }




        }



        private void button2_Click(object sender, EventArgs e)
```

```csharp
        {
            try
            {
                    string gender = null;
                    if (radioButton1.Checked == true)
                        gender = radioButton1.Text;
                    else if (radioButton2.Checked == true)
                        gender = radioButton2.Text;


                    string hobby = null;
                    if (checkBox1.Checked)
                        hobby = checkBox1.Text;
                    if (checkBox2.Checked)
                        hobby += "  " + checkBox2.Text;
                    con = new SqlConnection(str);


                    string qr = "update students set
studname=@studname,gender=@gender,hobby=@hobby,city=@city,dob=@dob where
rno=@rno";
                    cmd = new SqlCommand(qr, con);


                    cmd.Parameters.Add("@studname", SqlDbType.VarChar,
20).Value = textBox2.Text;
                    cmd.Parameters.Add("@gender", SqlDbType.VarChar,
20).Value = gender;
                    cmd.Parameters.Add("@hobby", SqlDbType.VarChar,
20).Value = hobby;
                    cmd.Parameters.Add("@city", SqlDbType.VarChar,
20).Value = comboBox1.Text;
                    cmd.Parameters.Add("@dob", SqlDbType.VarChar, 20).Value
= dateTimePicker1.Text;
                    cmd.Parameters.Add("@rno", SqlDbType.Int).Value =
Convert.ToInt32(textBox1.Text);
```

```csharp
                con.Open();

                cmd.ExecuteNonQuery();

                textBox1.Clear();

                textBox2.Clear();

                textBox1.Focus();

                label8.Text = "record updated succ.";

            }

            catch (Exception ee)

            {

                MessageBox.Show(ee.ToString());

            }

            finally

            {

                con.Close();

            }


        }


        private void button3_Click(object sender, EventArgs e)

        {

            try

            {

                con = new SqlConnection(str);

                string qr = "delete from students where rno=@rno or
studname=@studname";

                cmd= new SqlCommand(qr,con);

                cmd.Parameters.Add("@rno", SqlDbType.Int).Value =
Convert.ToInt32(textBox1.Text);

                cmd.Parameters.Add("@studname", SqlDbType.VarChar,20).Value
= textBox2.Text;
```

```csharp
                con.Open();

                cmd.ExecuteNonQuery();

                textBox1.Clear();

                textBox2.Clear();

                textBox1.Focus();

                label8.Text = "record deleted successfully";

            }

            catch(Exception ee)

            {

                MessageBox.Show(ee.ToString());

            }

            finally

            {

                con.Close();

            }


        }


        private void button4_Click(object sender, EventArgs e)

        {

            try

            {

                con = new SqlConnection(str);

                string qr = "select * from students where rno=@rno";

                cmd = new SqlCommand(qr, con);

                cmd.Parameters.Add("@rno", SqlDbType.Int).Value =
Convert.ToInt32(textBox1.Text);


                con.Open();
```

```csharp
SqlDataReader dr = cmd.ExecuteReader();

int flag = 0;

textBox2.Clear();

checkBox1.Checked = false;

checkBox2.Checked = false;

while (dr.Read())

{

    flag = 1;

    textBox2.Text = dr["studname"].ToString();

    string gen = dr["gender"].ToString();


    if (gen == "male")

    {

        radioButton1.Checked = true;

    }

    else if (gen == "female")

    {

        radioButton2.Checked = true;

    }


    string hob = dr["hobby"].ToString();


    if (hob == " ")

    {


    }

    else if (hob == "music")

    {

        checkBox1.Checked = true;
```

```csharp
                }
                else
                {
                    checkBox1.Checked = true;
                    checkBox2.Checked = true;
                }


                comboBox1.Text = dr["city"].ToString();
                dateTimePicker1.Text = dr ["dob"].ToString();


            }
            dr.Close();
            if (flag == 0)
            {
                MessageBox.Show("record not found");
            }
        }
        catch (Exception ee)
        {
            MessageBox.Show(ee.ToString());
        }
        finally
        {
            con.Close();
        }


        }
    }
```

}