```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_Ass_Customer

{

    public partial class Form1 : Form

    {

        public Form1()

        {

            InitializeComponent();

        }

        string str = "server=.\\SQLEXPRESS;integrated security=true;database=mkp";

        SqlConnection con = null;
```

```csharp
        SqlCommand command = null;


        private void button1_Click(object sender, EventArgs e)

        {

            try

            {

                con = new SqlConnection(str);

                //with sqlparameters

                string qr = "insert into
customer(custid,custname,custaddress,mobileno,emailid) values(@custid,
@custname,@custaddress,@mobileno,@emailid)";

                command = new SqlCommand(qr, con);

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

                command.Parameters.Add("@custname", SqlDbType.VarChar,
20).Value = textBox2.Text;

                command.Parameters.Add("@custaddress", SqlDbType.VarChar,
20).Value = textBox3.Text;

                command.Parameters.Add("@mobileno",
SqlDbType.VarChar,20).Value = textBox4.Text;

                command.Parameters.Add("@emailid", SqlDbType.VarChar,
20).Value = textBox5.Text;


                con.Open();

                command.ExecuteNonQuery();

                textBox1.Clear();

                textBox2.Clear();

                textBox3.Clear();

                textBox4.Clear();

                textBox5.Clear();

                MessageBox.Show("record saved succ.");

            }

            catch (Exception ee)
```

```csharp
            {
                MessageBox.Show(ee.ToString());
            }
            finally
            {
                con.Close();
            }
        }


        private void button2_Click(object sender, EventArgs e)
        {
            try
            {
                con = new SqlConnection(str);
                string qr = "update customer set custname=@custname,custaddress=@custaddress,mobileno=@mobileno,emailid=@emailid where custid=@custid ";
                command = new SqlCommand(qr, con);
                command.Parameters.Add("@custid", SqlDbType.Int).Value =Convert.ToInt32(textBox1.Text);
                command.Parameters.Add("@custname", SqlDbType.VarChar, 20).Value = textBox2.Text;
                command.Parameters.Add("@custaddress", SqlDbType.VarChar, 20).Value = textBox3.Text;
                command.Parameters.Add("@mobileno", SqlDbType.VarChar, 10).Value = textBox4.Text;
                command.Parameters.Add("@emailid", SqlDbType.VarChar, 20).Value = textBox5.Text;

                con.Open();
                command.ExecuteNonQuery();
                textBox1.Clear();
                textBox2.Clear();
```

```csharp
                    textBox3.Clear();

                    textBox4.Clear();

                    textBox5.Clear();

                    MessageBox.Show("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 customer where custid=@custid ";

                    command = new SqlCommand(qr, con);

                    command.Parameters.Add("@custid", SqlDbType.Int).Value =
textBox1.Text;

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

                    command.ExecuteNonQuery();


                    textBox2.Clear();

                    textBox3.Clear();
```

```csharp
            textBox4.Clear();

            textBox5.Clear();

            MessageBox.Show("record deleted  succ.");

        }

        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 customer where custid=@custid";

            command = new SqlCommand(qr, con);

            command.Parameters.Add("@custid", SqlDbType.Int).Value =
textBox1.Text;

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

                        //sqldatareader class – used to hold records
returned from sqlserver

            SqlDataReader dr = command.ExecuteReader();

            int flag = 0;

            textBox2.Clear();
```

```csharp
                while (dr.Read())

                {

                    flag = 1;

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

                    textBox3.Text = dr["custaddress"].ToString();

                    textBox4.Text = dr["mobileno"].ToString();

                    textBox5.Text = dr["emailid"].ToString();


                }

                dr.Close();

                //MessageBox.Show("record deleted  succ.");

                if (flag == 0)

                {

                    MessageBox.Show("record not found");

                }

            }

            catch (Exception ee)

            {

                MessageBox.Show(ee.ToString());

            }

            finally

            {


                con.Close();

            }

        }


    }
```

}