

```

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 LINQ_to_SQL
{
    public partial class Form1 : Form
    {
        DataClasses1DataContext dc;
        SqlConnection con;
        string con_string = @"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\hasib\source\repos\LINQ to SQL\LINQ to SQL\Database1.mdf;Integrated Security=True";
        public Form1()
        {
            InitializeComponent();
            con = new SqlConnection(con_string);
        }

        private void btnInsert_Click(object sender, EventArgs e)
        {
            if (txtID.Text != "" && txt_comapany.Text != "" && txtRam.Text != "" && txt_price.Text != "")
            {
                insert_error.Visible = false;
                try
                {
                    dc = new DataClasses1DataContext(con);
                    tb_laptop laptop = new tb_laptop();
                    laptop.Id = Convert.ToInt32(txtID.Text);
                    laptop.company = txt_comapany.Text;
                    laptop.price = Convert.ToInt32(txt_price.Text);
                    laptop.ram = txtRam.Text;

                    dc.tb_laptops.InsertOnSubmit(laptop);
                    dc.SubmitChanges();
                    MessageBox.Show("INSERT SUCCESS");
                    clear_();
                }
                catch (Exception ex)
                {
                    MessageBox.Show("Something wrong occure:\n" + ex.Message);
                }
            }
            else
            {
                insert_error.Visible = true;
            }
        }
    }
}

```

```

private void txtID_TextChanged(object sender, EventArgs e)
{
    try
    {
        error_id.Visible = false;
        Convert.ToInt32(txtID.Text);

    }
    catch
    {
        if (txtID.Text != "")
        {
            error_id.Visible = true;
        }
    }
}

```

```

private void txt_price_TextChanged(object sender, EventArgs e)
{
    try
    {
        error_price.Visible = false;
        Convert.ToInt32(txt_price.Text);

    }
    catch
    {
        if (txtID.Text != "")
        {
            error_price.Visible = true;
        }
    }
}

```

```

private void button1_Click(object sender, EventArgs e)
{
    try
    {
        dc = new DataClasses1DataContext(con);
        tb_laptop laptop = dc.tb_laptops.Single(l => l.Id == Convert.ToInt32(txtID.Text));
        dc.tb_laptops.DeleteOnSubmit(laptop);
        dc.SubmitChanges();
        MessageBox.Show("Dleted record");
        clear_();
    }
    catch(Exception ex)
    {
        MessageBox.Show(ex.Message);
    }
}

```

```

private void button2_Click(object sender, EventArgs e)
{
    dc = new DataClasses1DataContext(con);
    var res = dc.GetTable<tb_laptop>();
}

```

```

dataGridView1.DataSource = res;
}

private void button1_Click_1(object sender, EventArgs e)
{
    try
    {
        dc = new DataClasses1DataContext(con);

        tb_laptop laptop = dc.tb_laptops.First(lap => lap.Id.Equals(Convert.ToInt32(txtID.Text)));
        laptop.company = txt_comapany.Text;
        laptop.price = Convert.ToInt32(txt_price.Text);
        laptop.ram = txtRam.Text;

        //dc.tb_laptops.InsertOnSubmit(laptop);
        dc.SubmitChanges();
        MessageBox.Show("Updated record");
        button2_Click(sender, e);
        clear_();
    }
    catch(Exception ex)
    {
        MessageBox.Show(ex.Message);
    }
}

private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs e)
{
    if(e.RowIndex >= 0){
        DataGridViewRow row = dataGridView1.Rows[e.RowIndex];
        txtID.Text = row.Cells["Id"].Value.ToString();
        txt_comapany.Text = row.Cells["company"].Value.ToString();
        txt_price.Text = row.Cells["price"].Value.ToString();
        txtRam.Text = row.Cells["ram"].Value.ToString();
    }
}

private void dataGridView1_RowHeaderMouseClick(object sender, DataGridViewCellMouseEventArgs e)
{
    if(e.RowIndex >= 0){
        DataGridViewRow row = dataGridView1.Rows[e.RowIndex];
        txtID.Text = row.Cells["Id"].Value.ToString();
        txt_comapany.Text = row.Cells["company"].Value.ToString();
        txt_price.Text = row.Cells["price"].Value.ToString();
        txtRam.Text = row.Cells["ram"].Value.ToString();
    }
}

private void clear_()
{
    txtID.Text = "";
    txt_comapany.Text = "";
    txt_price.Text = "";
    txtRam.Text = "";
}

```

}
}