Reflection

```
<div>

<asp:Button ID: "Button1" runat:"server" Text= "Button"/>

</div>


namespace Reflection
{
public partial class WebForm1: System.Web.UI.Page
{
protected void Page_Load (object Sender, EventArgs e)
{
}
protected void Button1_Click (object Sender, EventArgs e)
{
emp obj = new emp();
Type type = obj.GetType();
foreach (MemberInfo x in type.GetMembers())
{
MessageBox.Show (x.Name);
}
}
}
```

```
namespace Reflection
{
public class emp
{
  int x;
  String y = 'GNSU';

  public void emp(int a)
  {
   this.x = a;
  }
  public void disp()
  {
  Message.show("Value of x is = " + x +
               " Name of The University");
  }
}
```

Pallindrome Number

```
<body>
<form id="form1" runat="server">
<centre>
<div id="div1">
<asp:Label ID="Label1" runat="Server" Text="Enter a no:>
                              </asp:Label>
<asp:TextBox1 ID="TextBox1" runat="server">
                 </asp:TextBox><br/> <br/>


<asp:Button ID="Server" runat="Server" Text="Button"
                      OnClick="Button1_Click"/>

<input id="Reset1" tybe="reset" value="Reset"/>
                              <br/> <br/>


<asp:Lebel ID="Label2" runat="Server" Text="Out
                  -put"></asp:Leb>

<asp:TextBox ID="TextBox2 runat="Server" >
                   </asp:TextBox>

</div>
</center>
</body>
```

```
protected void Button1_click(Object Sender,
                                    EventArgs e)
{
    int x = int.Parse (TextBox1.Text);
    int rev = 0;
    int y = x;
    While ( x != 0)
    {
    rev = rev * 10 + x % 10;
    x = x / 10;
    }
    if ( rev == y)
    {
    TextBox2.Text = rev.ToString() + " is pallindrome
                                    number");
    }
    else
    {
    TestBox2.Text = rev.ToString() + " is not
                                    pallindrome Number");
    }
}
```

ADDITION

Webform1.aspx

```
<div>

    <asp:Label ID="Label1" runat="Server" Text="Enter First
             Number"> </asp:Label>

    <asp:TextBox ID="T1" runat="Server"> </asp:TextBox>
                                              <br/>

    <asp:Label ID="Label2" runat="Server" Text="Enter
             Second Number"> </asp:Label>

    <asp:TextBox ID="T2" runat="Server"></asp:TextBox>
                                              <br/>

    <asp:Label ID="Label3" runat="Server" Text="Result">
                                     </asp:Label>

    <asp:TextBox ID="T3" runat="Server"></asp:TextBox>
                                       </br>

    <asp:Button ID="Button1" runat="Server" Text=
             "Addition" />


</div>
```

```
protected void Button1.Click (Object Sender, EventArgs e)
{
    int x, y, z;
    x = int.Parse (TextBOX1.Text);
    y = int.Parse (TextBOX2.Text);
    z = x+y;
    TextBOX3.Text = z.ToString();
}
}
```

Serializable

```
<div>

<asp:Label ID="Label1" runat="server" Text="id">
                            </asp:Label>

<asp:TextBox ID="TextBox1" runat="Server"></asp:TextBox>
                            <br/>

<asp:Label ID="Label2" runat="Server" Text="name">
                            </asp:Label>

<asp:TextBox ID="TextBox2" runat="Server"></asp:TextBox>
                            <br/>

<asp:Label ID="Label3" runat="Server" Text="address">
                            </asp:Label>

<asp:TextBox ID="TextBox3" runat="Server"></asp:TextBox>
                            <br/>

<asp:Button ID="Button1" runat="server" Text="Button"/>
                            <br/>


</div>
```
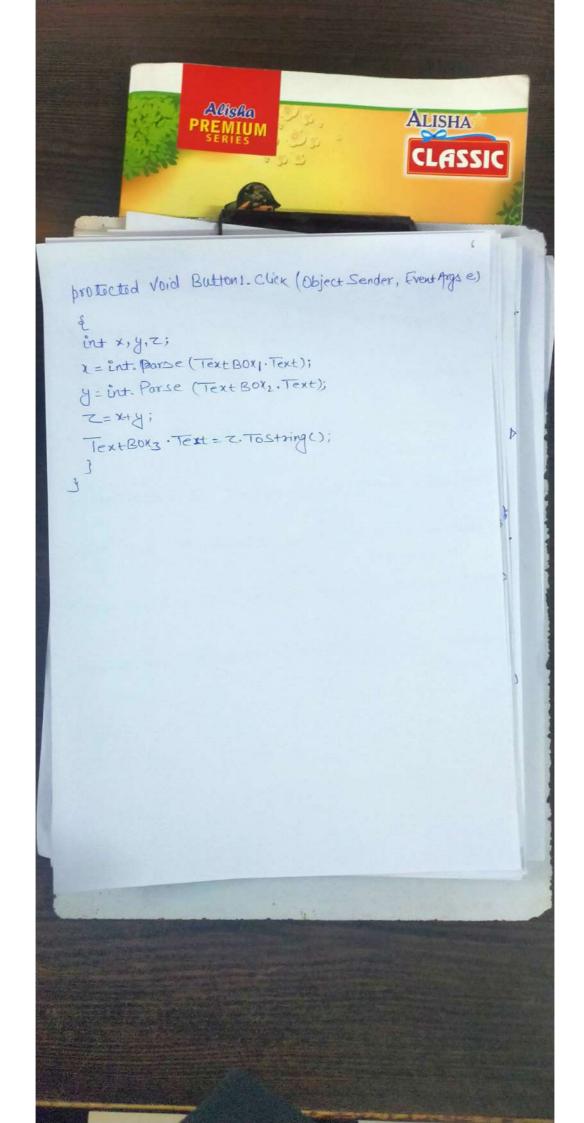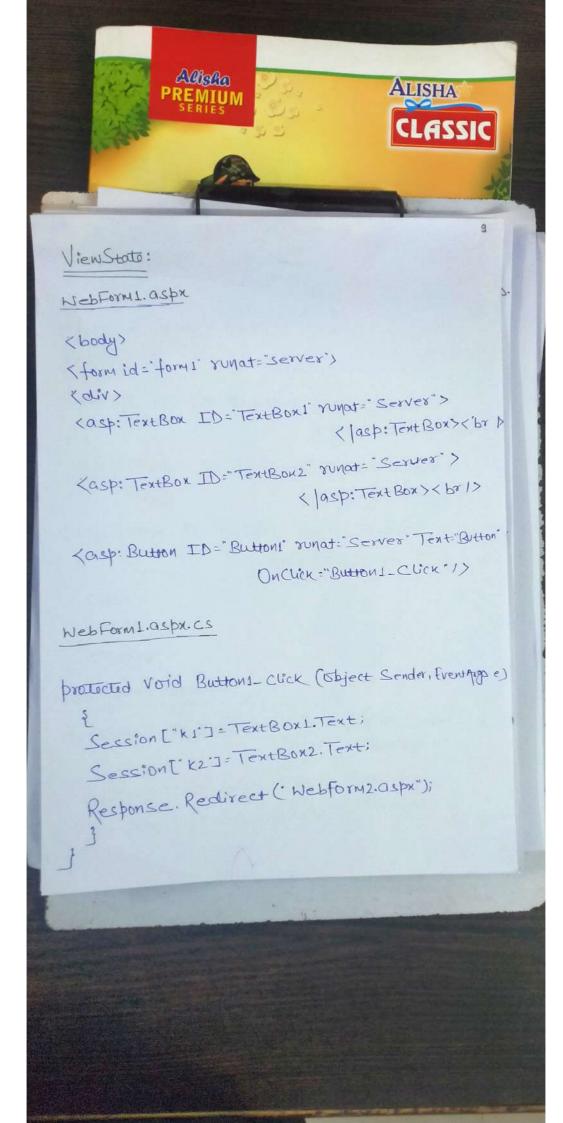
```
namespace Serializable
{
public partial class webform1: System.web.UI.Page
{
protected void page-load (object sender, EventArgs e)
{
}
protected void Button1-click (object sender, EventArgs e)
{
Emp obj = new Emp ( 101 , "Mohit", "GNSU");
FileStream st1 = new FileStream ("D:\\demo\\t1.Text,
                  FileMode.OpenOrCreate, FileAccess.Readwrite);
BinaryFormatter bf1 = new BinaryFormatter();
bf1.Serializable (st1, obj);
st1.close();
FileStream st2 = new FileStream ("D:\\demo\\t1.Text,
                  FileMode.OpenOrCreate, FileAccess.Readwrite);
Emp obj1 = (Emp) bf1.Deserialize(st2);
TextBox1.Text = obj1.id.ToString();
TextBox2.Text = obj1.name;
st2.close();
}
}
```

ViewState:

WebForm1.aspx

```
<body>
<form id="form1" runat="server">
<div>
<asp:TextBox ID="TextBox1" runat="Server">
                         </asp:TextBox><br /
<asp:TextBox ID="TextBox2" runat="Server">
                         </asp:TextBox><br />
<asp:Button ID="Button1" runat="Server" Text="Button"
                         OnClick="Button1_Click"/>
```

WebForm1.aspx.cs

```
protected void Button1_Click (Object Sender, EventArgs e)
{
    Session["k1"] = TextBox1.Text;
    Session["k2"] = TextBox2.Text;
    Response.Redirect ("WebForm2.aspx");
}
}
```

WebForm2.aspx

```
<body>
<form id="form1" runat="Server">
<div>

<asp:TextBox ID="TextBox3" runat="Server">
                            </asp:TextBox> <br/>
<asp:TextBox ID="TextBox4" runat="Server">
                            </asp:TextBox> <br/>
<asp:Button ID="Button1" runat="Server"
                    OnClick="Button1_Click"/>

</div>
</form>
</body>
```

WebForm2.aspx.cs

```
protected void Button1_Click(Object Sender,
                            EventArgs e)
{
TextBox3.Text = Session["K1"].ToString();
TextBox4.Text = Session["K2"].ToString();
}
```

WebService1

```
public class WebService1 : System.Web.Services.
                                    WebService
{
[WebMethod]
public int sum1 (int a, int b)
{
 return (a+b);
 }
}
}
```

```
<div>
<asp:TextBox ID="TextBox1" runat="Server"></asp:TextBox>
<asp:TextBox ID="TextBox2" runat="Server"></asp:TextBox>
<asp:TextBox ID="TextBox3" runat="Server"></asp:TextBox>
<asp:Button ID="Button1" runat="Server"/>
</div>
```
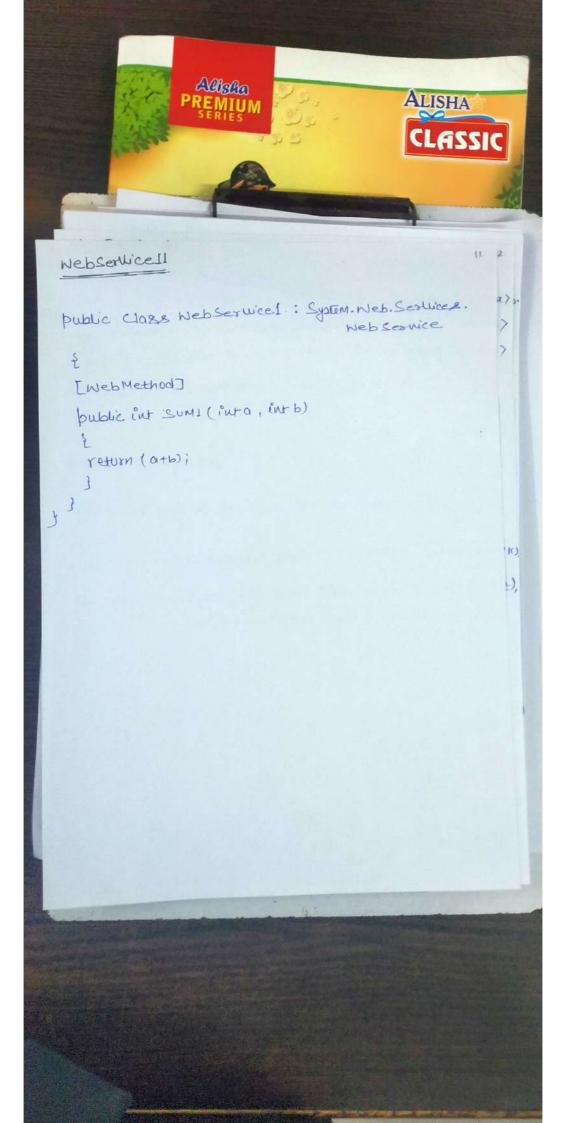
WebForm1.aspx.cs

```
protected void Button1_Click(Object sender, EventArgs e)
{
    localhost.WebService1 obj = new localhost.WebService1();

    TextBox3.Text = obj.SUM1(int.Parse(TextBox1.Text),
                    int.Parse(TextBox2.Text)).ToString();

}
}
```

WAP using function Overloading To Swap To integer numbers and Snap Two float Numbers.

- Code on Swap class.

```
public class swap
{
public void swapint (ref int a, ref int b)
{
int c;
c=a;
a=b;
b=c;
MessageBox. show ("The Value of x="+a.Tostring()
             +'\n' + "The Value of y = "+b.ToString());

}
public void swapint (ref float a, ref float b)
{
float c;
c=a;
a=b;
b=c;
MessageBox. show ("The Value of x ="+ a.ToString()
             +'\n' + "The Value of y="+ b.ToString());

}
}
}
```

```
<div>

<asp: Label ID:"Label1" runat:"Server
```

XML

```
<div>
    <asp: GridView ID=" GridView1 " runat="Server">
                                    </asp: GridView>


    <asp: GridView ID="GridView2 " runat= Server">

    </asp: GridView>

    <asp: Button ID="Button1" runat="Server" Text="Write"
                        OnClick="Button1_Click"/>

    <asp: Button ID=" Button1" runat="Server" Text="Read"
            <OnClick ="Button2_Click" />


</div>
```

Gridview

```
<div>

    <asp: Label ID="Label1" runat="Server" Text="rou">
                        </asp:Label>

    <asp: TextBox ID="TextBox1" runat="Server"></asp:TextBox>
                        </Br>

    <asp:Label ID="Label2" runat="server" Text="name">
                        </asp:Label>

    <asp:TextBox ID="TextBox2" runat="Server"></asp:TextBox>;
                        </Br>

    <asp: Label ID="Label3" runat="Server" Text="Course">
                        </asp:Label>

    <asp:TextBox ID="TextBox3" runat="Server"></asp:TextBox>
                        </br>

    <asp: Button ID="Button1" runat="Server" Text="first/>

    <asp: Button ID="Button2" runat="Server" Text="Last"/>

    <asp: Button ID="Button3" runat="Server" Text="Previous"/>

    <asp: Button ID="Button4" runat="Server Text="Next"/>

</div>
```
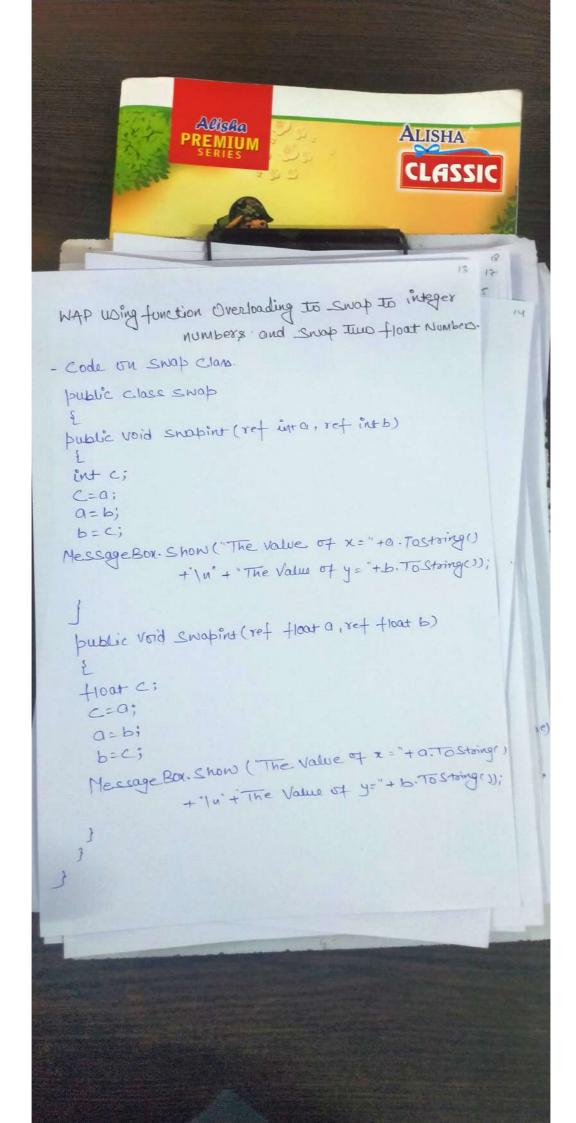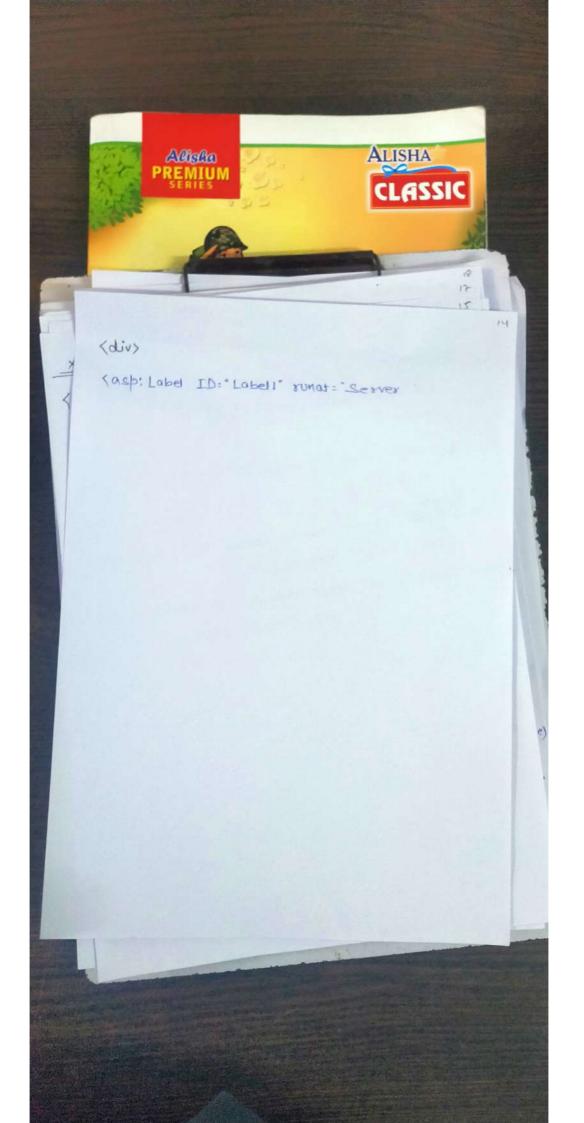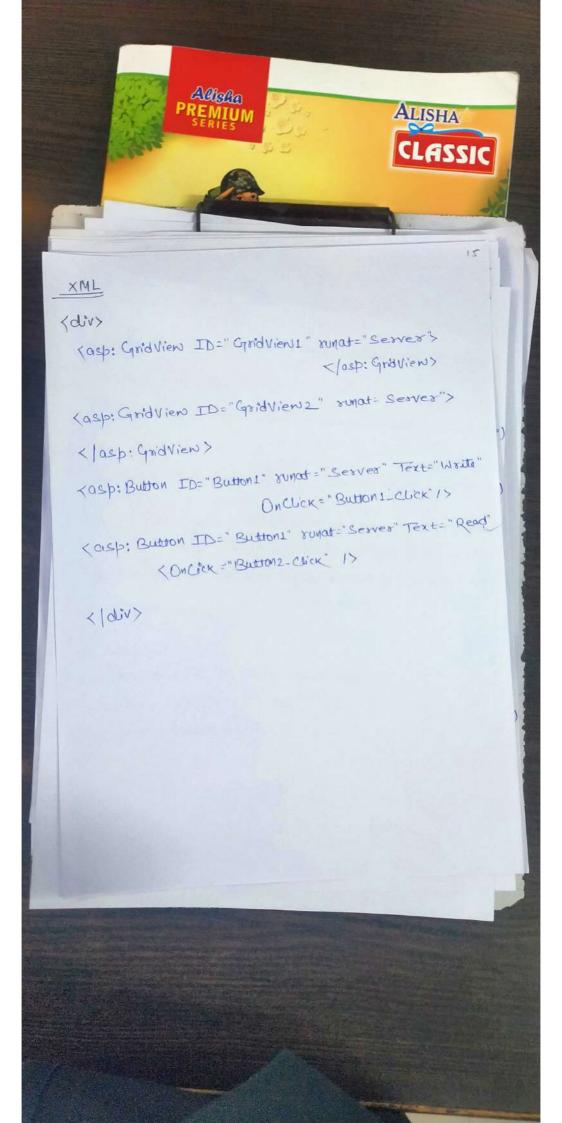
WAP to Declare a Class 'Distance' have datamember dist1, dist2, dist3. Initialize the two data members using constructor and store their addition third Data Member using function And Display Addition

→ Code On distance.cs class file

```
public class distance
{
  int dist1, dist2, and dist3;
  public distance (int x, int y)
  {
    this.dist1 = x;
    this.dist2 = y;
  }
  public int add()
  {
    dist3 = dist1 + dist2;
    return (dist3);
  }
}

protected void Button1_Click (Object Sender, EventArgs e)
{
  distance obj = new distance (int.Parse (TextBox1.Text),
           int.Parse (TextBox2.Text));
  Label1.Text = obj.add().ToString();
}
```

```
protected void Button2_Click (object sender, EventArgs e)
{
String con = "Data Source=LAPTOP-3CIJBOT7||SQLEXPRESS;
            Initial Catalog=Date; Integrated Security="True";
SqlDataAdapter da = new SqlDataAdapter ("Select *
                                from time", con);

dd1.Fill = new DataSet();
da.fill (dd1);
dd1.ReadXml (@"D:||BCA||Test.xml");
GridView2.DataSource = dd1.Tables [0];
GridView2.DataBind();

}
}
```

```
Namespace xml
{
public partial class webform1: System.web.UI.Page      ;
{
Dataset ds, ds1;
protected void Page_Load (object Sender, EventArgs e)
{
}
protected void Button1_Click (object Sender, EventArgs e)
{
String con = "Data Source = LAPTOP-3CIJBOT711SQLEXPRES
              Initial Catalog = Data; Intigrated Security="True";
Sql DataAdapter da = new BSqlDataAdapter ("Select * from
                                     time", con);
ds = new Dataset ();

da. Fill (ds);
ds. write xml (@"D:\\BCA\\Test.xml");
GridView1. DataSource = ds;
GridView1. DataBind ();

}
```

```
Namespace gridview
{
public partial class webform2: System.web.UI.Page
{
Dataset ds;
Static int i=0;
protected Void Page_load (object Sender ,EventArgs e)
{
String con=" Data Source=LAPTOP-3CIJBOT7 IISQLEXPRESS;
        Initial catalog= data; Integrated Security:"True";
Sql DataAdapter da= new qSql DataAdapter ("select *
                            from adaptor", con);

ds= new Dataset();
da.Fill(ds);
GridView1.DataSource=ds;
GridView1.DataBind();
}
protected Void Button1_Click (object Sender , EventArgs e)
{
i=0;
TextBox1.Text=ds.Tables[0].Rows[i][0].Tastring ();
TextBox2.Text= ds.Tables[0].Rows [i][1].Tastring();
TextBox3.Text= ds.Tables
}
```

```
protected void Button2_Click (Object Sender, EventArgs e)
{
i++;
int j = ds.Tables[0].Rows.Count;
if ( i > j-1 )
{
Response.PWrite ("No Records Founds);
}
else
{
TextBox1.Text = ds.Tables[0].Rows[i][0].ToString();
TextBox2.Text = ds.Tables[0].Rows[i][1].ToString();
TextBox3.Text = ds.Tables[0].Rows[i][2].ToString();
}
}

protected void Button3_click ( Object Sender, EventArgs e)
{
i--;
if ( i<0)
{
Response.Write ("No Record Found");
{
TextBox1.Text = ds.Tables[0].Rows[i][0].ToString();
TextBox2.Text = ds.Tables[0].Rows[i][1].ToString();
TextBox3.Text = ds.Tables[0].Rows[i][2].ToString();
}
}
}
```

```
protected void Button_9_Click (Object sender, EventArgs e)
{
    int j= dS.Tables[0].Rows.Count;
    TextBox1.Text= dS.Tables[0].Rows[j-1][0].ToString();
    TextBox2.Text= dS.Tables[0].Rows[j-1][1].ToString();
    TextBox3.Text= dS.Tables[0].Rows[j-1][2].ToString();
}
}
```

DataGrid

```
<div>

<asp:DataGrid ID="DataGrid" runat="Server"
        OnCancelCommand="DataGrid2-CancelCommand"
        OnEiditCommand="DataGrid2.EditCommand"
        OnUpdateCommand="DataGrid2-UpdateCommand"
        OnPageIndexChanged="DataGrid2-PageIndexChanged"
        OnSelectedIndexChanged="DataGrid2-SelectedIndex
                                Changed />

<Columns>

<asp:EditCommandColumn HeaderText="Edit"
    EditText="Edit" UpdateText="Update" CancelText
                                        ="Cancel">

</asp:EditCommandColumn>

</Columns>

</asp:DataGrid>

</div>
```
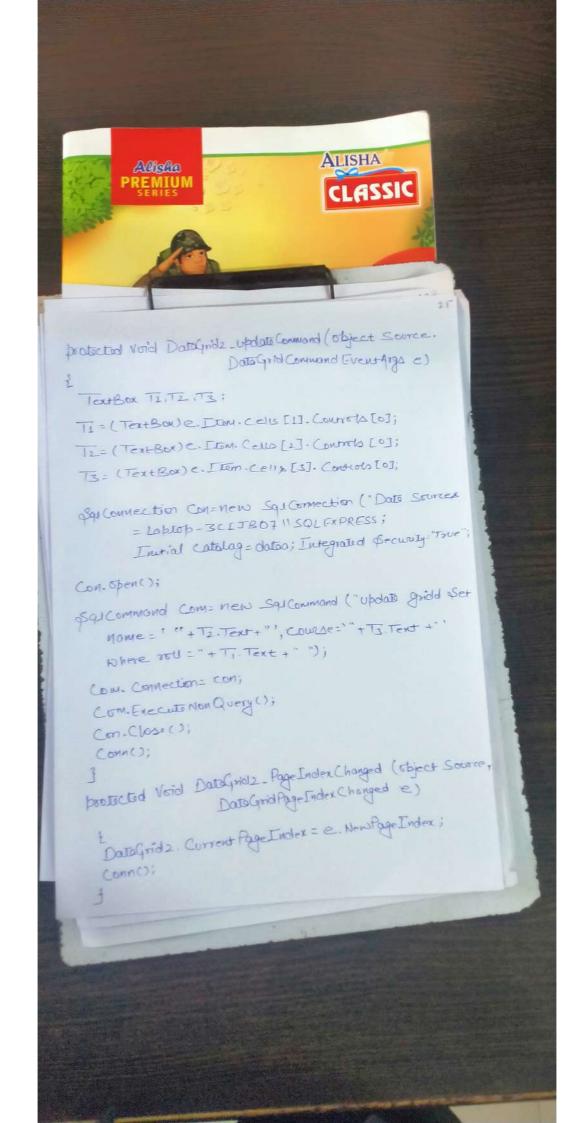
```
namespace datagrid
{
public Partial class Webforms: System.Web.UI.Page
{
DataSet ds;
protected Void page_load (object sender. EventArgs e)
{
if ( ! IsPostBack )
{
conn();
}
}
protected Void DataGrid2_SelectedIndexChanged
                        (object Sender, EventArgs e)

{
conn();
}
protected Void DataGrid2_CancelCommand (object sender,
                        DataGrid Command EventArgs e) .

{
DataGrid2_EditItemIndex = -1;
conn();
}
protected Void DataGrid2_EditCommand (object Sender.
                        DataGrid Command EventArgs e)

{
DataGrid2_EditItemIndex = e.Item.ItemIndex;
conn();
}
```

```
protected void DataGrid2_UpdateCommand (object Source,
                        DataGrid Command EventArgs e)
{
    TextBox T1,T2,T3;
    T1 = (TextBox)e.Item.Cells[1].Controls[0];
    T2 = (TextBox)e.Item.Cells[2].Controls[0];
    T3 = (TextBox)e.Item.Cells[3].Controls[0];

    SqlConnection Con= new SqlConnection ("Data Source
         = Laptop - 3CIJB07 \\SQLEXPRESS;
         Initial Catalog = dataa; Integrated Security="True";

Con.Open();

    SqlCommand Com= new SqlCommand ("update gridd Set
        name = ' '" + T2.Text + "', Course='" + T3.Text + '`
        where roll =" + T1.Text + " ");

    Com. Connection = con;
    Com.ExecuteNonQuery();
    Con.Close();
    Conn();
}
protected void DataGrid2_PageIndexChanged (object Source,
                    DataGridPageIndexChanged e)
{
    DataGrid2.CurrentPageIndex = e.NewPageIndex;
    Conn();
}
```

```
public void Conn()
{
String Con ="Data Source = LAPTOP-3CIJBOT711 SQLEPRESS;
        Initial Catalog="data0"; Integrated Security="True";

Sql DataAdapter da = new SqlDataAdaptor("Select *
                    from gridd", Con);

dx. new Dataset ();
da. Fill(ds);
DataGrid1.DataSource =ds;
DataGrid2 DataBind();
}
```

</body>

```
<div>
    <asp:Label ID="Label1" runat="Server" Text="roll">
                                    </asp:Label>

    <asp:TextBox ID="T1" runat="Server"></asp:TextBox>
                                    <br>

    <asp:Label ID="Label2" runat="Server" Text="nome">
                                    </asp:Label>

    <asp:TextBox ID="T2" runat="Server"></asp:TextBox>
                                    <br>

    <asp:Level ID="Label3" runat="Server" Text="Course">
                                    </asp:Level>

    <asp:Level ID=Button1 runat="Server" Text="Submit">

    </div>
```

```
</body>
```

```
<body>
<form id="form1" runat="server">
<div>
<asp:Label ID="Label1" runat="Server" Text="roll">
                                        </asp:Label>

<asp:TextBox ID="T1.Text" runat="Server">
                                        </asp:TextBox></br>

<asp:Label ID="Label2" runat="Server" Text="name">
                                        </asp:Label>

<asp:TextBox ID="T2" runat="Server"></asp:TextBox>
                                        </Br>

<asp:Label ID="Label3" runat="Server" Text="addres">
                                        </asp:Label>

<asp:TextBox ID="T3" runat="Server"> </asp:TextBox>
                                        </Br>

<asp:Label ID="Label4" runat="Server" Text="Course">
                                        </asp:Label>

<asp:TextBox ID="T4" runat="Server"> </asp:TextBox></Br>

<asp:Label ID="Label5" runat="Server" Text="fee">
                                        </asp:Label>

<asp:TextBox ID="T5" runat="Server"></asp:TextBox></Br>

<asp:Button ID="Button1" runat="Server" Text="Update"/>
</div>
</body>
```

```
Protected void Button1_click (Object Sender, EventArgs e)
{
Sql Connection Conn = new Sql Connection ("Data Source=
        Laptop-3CIJBOT711SQLEXPRESS; Initial Catalog=
        Key; Integrated Security =True");
Conn.Open();
Sql Command Com = new SqlCommand("Update board Set
        name = ' " + T2.Text +"', fee = " + T3.Text + "
        Where roll = " + T1.Text "  ");

Com.Connection = Conn;
Com.ExecuteQuery();
Conn.Close();
MessageBox.Show ("One Record is updated");
    }
}
```