

**PRACTICAL NO.09****Write the program for the following:**

a. Create a web application to demonstrate use of GridView button column and GridView events along with paging and sorting.

**Code:****Default.aspx:**

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs"
Inherits="gridview.Default" %>

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:GridView ID="GridView1" runat="server" AllowPaging="True"
AllowSorting="True" AutoGenerateColumns="False"
                DataKeyNames="p_id" OnRowCommand="GridView1_RowCommand"
DataSourceID="SqlDataSource1" PageSize="2" BackColor="White" BorderColor="#999999"
BorderStyle="None" BorderWidth="1px" CellPadding="3" GridLines="Vertical">
                <AlternatingRowStyle BackColor="#DCDCDC" />
                <Columns>
                    <asp:BoundField DataField="p_id" HeaderText="Product Id" ReadOnly="True"
SortExpression="p_id" />
                    <asp:BoundField DataField="p_name" HeaderText="Product Name"
SortExpression="p_name" />
                    <asp:BoundField DataField="p_price" HeaderText="Price"
SortExpression="p_price" />
                    <asp:BoundField DataField="p_quantity" HeaderText="Quantity"
SortExpression="p_quantity" />
                    <asp:TemplateField HeaderText="Images">
                        <ItemTemplate>
                            <asp:Image ID="Image1" runat="server" Height="200px" ImageUrl='<%#
Eval("p_img") %>' Width="250px" />
                        </ItemTemplate>
                    </asp:TemplateField>
                    <asp:ButtonField ButtonType="Button" HeaderText="Show Details"
Text="Show" CommandName="show"/>
                </Columns>
                <FooterStyle BackColor="#CCCCCC" ForeColor="Black" />
                <HeaderStyle BackColor="#000084" Font-Bold="True" ForeColor="White" />
                <PagerStyle BackColor="#999999" ForeColor="Black" HorizontalAlign="Center"
/>
                <RowStyle BackColor="#EEEEEE" ForeColor="Black" />
                <SelectedRowStyle BackColor="#008A8C" Font-Bold="True" ForeColor="White"
/>
                <SortedAscendingCellStyle BackColor="#F1F1F1" />
                <SortedAscendingHeaderStyle BackColor="#0000A9" />
                <SortedDescendingCellStyle BackColor="#CAC9C9" />
                <SortedDescendingHeaderStyle BackColor="#000065" />
            </asp:GridView>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>"
SelectCommand="SELECT * FROM [Products]"></asp:SqlDataSource>
            <br />
            <asp:Label ID="Label1" runat="server" Text=""></asp:Label>
        </div>
    </form>
</body>
</html>

```

**Default.aspx.cs:**

```
using System;
using System.Data.SqlClient;
using System.Web.UI.WebControls;
namespace gridview
{
    public partial class Default : System.Web.UI.Page
    {
        SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\TANMAY\source\repos\gri
dview\App_Data\Database2.mdf;Integrated Security=True");

        protected void GridView1_RowCommand(object sender, GridViewCommandEventArgs e)
        {
            // Check if the command is for deleting a row
            if (e.CommandName == "show")
            {
                int index = Convert.ToInt32(e.CommandArgument.ToString());
                GridViewRow row = GridView1.Rows[index];
                String pname = row.Cells[1].Text;
                String price = row.Cells[2].Text;
                string quantity = row.Cells[3].Text;
                Label1.Text = "Selected Product Name is : " + pname + "<br>" + "Price is : " +
price+"<br>"+"Quantity : "+quantity;
            }
        }
    }
}
```



Products table:

```
CREATE TABLE [dbo].[Products]
(
    [p_id] INT NOT NULL PRIMARY KEY,
    [p_name] NCHAR(10) NULL,
    [p_price] NCHAR(10) NULL,
    [p_quantity] INT NULL,
    [p_img] VARCHAR(50) NULL
)
```



	p_id	p_name	p_price	p_quantity	p_img
▶	101	Soap	10	30	~/soap.jpg
	102	Biscuit	10	40	~/biscuit.jpg
	103	Books	45	100	~/books.jpg
	104	TV	10000	2	~/tv.jpg
	105	pen	5	120	~/pen.jpg
	106	Chair	250	10	~/chair.jpg
⊗	NULL	NULL	NULL	NULL	NULL

Output:

localhost:44372/Default.aspx

Product Id	Product Name	Price	Quantity	Images	Show Details
101	Soap	10	30		Show
102	Biscuit	10	40		Show

1 2 3

Product Id	Product Name	Price	Quantity	Images	Show Details
105	pen	5	120		Show
106	Chair	250	10		Show

1 2 3

Selected Product Name is :Chair  
Price is : 250  
Quantity : 10

b. Create a web application to demonstrate data binding using DetailsView and FormView

Control.

**Code:**

**Default.aspx:**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs"
Inherits="gridview.Default" %>

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div style="height: 730px">
            <br />
            <asp:GridView ID="GridView1" runat="server" AllowPaging="True"
AllowSorting="True" AutoGenerateColumns="False"
                DataKeyNames="p_id" DataSourceID="SqlDataSource1" PageSize="2"
BackColor="White" BorderColor="#999999" BorderStyle="None" BorderWidth="1px"
CellPadding="3" GridLines="Vertical" style="z-index: 1; left: 10px; top: 68px; position:
absolute; height: 257px; width: 349px">
                <AlternatingRowStyle BackColor="#DCDCDC" />
                <Columns>
                    <asp:BoundField DataField="p_name" HeaderText="Product Name"
SortExpression="p_name" />
                    <asp:CommandField ShowSelectButton="True" />
                </Columns>
                <FooterStyle BackColor="#CCCCCC" ForeColor="Black" />
                <HeaderStyle BackColor="#000084" Font-Bold="True" ForeColor="White" />
                <PagerStyle BackColor="#999999" ForeColor="Black" HorizontalAlign="Center"
/ >
                <RowStyle BackColor="#EEEEEE" ForeColor="Black" />
                <SelectedRowStyle BackColor="#008A8C" Font-Bold="True" ForeColor="White"
/ >
                <SortedAscendingCellStyle BackColor="#F1F1F1" />
                <SortedAscendingHeaderStyle BackColor="#0000A9" />
                <SortedDescendingCellStyle BackColor="#CAC9C9" />
                <SortedDescendingHeaderStyle BackColor="#000065" />
            </asp:GridView>
            <asp:Label ID="Label2" runat="server" Font-Bold="True" style="z-index: 1; left: 21px;
top: 37px; position: absolute; width: 180px" Text="Grid View:"></asp:Label>
            <asp:Label ID="Label3" runat="server" Font-Bold="True" style="z-index: 1; left:
398px; top: 36px; position: absolute; width: 150px" Text="Form View:"></asp:Label>
            <asp:Label ID="Label4" runat="server" Font-Bold="True" style="z-index: 1; left:
942px; top: 33px; position: absolute; width: 141px" Text="Details View:"></asp:Label>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings.ConnectionString %>"
SelectCommand="SELECT * FROM [Products]"></asp:SqlDataSource>
            <asp:SqlDataSource ID="SqlDataSource2" runat="server"
ConnectionString="<%$ ConnectionStrings.ConnectionString %>"
SelectCommand="SELECT * FROM [Products] WHERE ([p_id] = @p_id)">
                <SelectParameters>
                    <asp:ControlParameter ControlID="GridView1" Name="p_id"
PropertyName="SelectedValue" Type="Int32" />
                </SelectParameters>
            </asp:SqlDataSource>
            <asp:FormView ID="FormView1" runat="server" BackColor="#CCCCCC"
BorderColor="#999999" BorderStyle="Solid" BorderWidth="3px" CellPadding="4"
CellSpacing="2" DataKeyNames="p_id" DataSourceID="SqlDataSource2"
ForeColor="Black" GridLines="Both" style="z-index: 1; left: 392px; top: 75px; position:
absolute; height: 409px; width: 483px">
                <EditItemTemplate>
                    p_id:
                    <asp:Label ID="p_idLabel1" runat="server" Text="<%# Eval("p_id") %>" />
                </EditItemTemplate>
            </asp:FormView>
        </div>
    </form>
</body>
</html>
```

```

        <br />
        p_name:
        <asp:TextBox ID="p_nameTextBox" runat="server" Text='<%#
Bind("p_name") %>' />
        <br />
        p_price:
        <asp:TextBox ID="p_priceTextBox" runat="server" Text='<%#
Bind("p_price") %>' />
        <br />
        p_quantity:
        <asp:TextBox ID="p_quantityTextBox" runat="server" Text='<%#
Bind("p_quantity") %>' />
        <br />
        p_img:
        <asp:TextBox ID="p_imgTextBox" runat="server" Text='<%# Bind("p_img") %>'
/>

        <br />
        <asp:LinkButton ID="UpdateButton" runat="server" CausesValidation="True"
CommandName="Update" Text="Update" />
        &nbsp;<asp:LinkButton ID="UpdateCancelButton" runat="server"
CausesValidation="False" CommandName="Cancel" Text="Cancel" />
    </EditItemTemplate>
    <EditRowStyle BackColor="#000099" Font-Bold="True" ForeColor="White" />
    <FooterStyle BackColor="#CCCCCC" />
    <HeaderStyle BackColor="Black" Font-Bold="True" ForeColor="White" />
    <InsertItemTemplate>
        p_id:
        <asp:TextBox ID="p_idTextBox" runat="server" Text='<%# Bind("p_id") %>' />
        <br />
        p_name:
        <asp:TextBox ID="p_nameTextBox" runat="server" Text='<%#
Bind("p_name") %>' />
        <br />
        p_price:
        <asp:TextBox ID="p_priceTextBox" runat="server" Text='<%#
Bind("p_price") %>' />
        <br />
        p_quantity:
        <asp:TextBox ID="p_quantityTextBox" runat="server" Text='<%#
Bind("p_quantity") %>' />
        <br />
        p_img:
        <asp:TextBox ID="p_imgTextBox" runat="server" Text='<%# Bind("p_img") %>'
/>

        <br />
        <asp:LinkButton ID="InsertButton" runat="server" CausesValidation="True"
CommandName="Insert" Text="Insert" />
        &nbsp;<asp:LinkButton ID="InsertCancelButton" runat="server"
CausesValidation="False" CommandName="Cancel" Text="Cancel" />
    </InsertItemTemplate>
    <ItemTemplate>
        <strong>Product ID:</strong>
        <asp:Label ID="p_idLabel" runat="server" Text='<%# Eval("p_id") %>' />
        <br />
        <strong>Product Name:</strong>
        <asp:Label ID="p_nameLabel" runat="server" Text='<%# Bind("p_name") %>' />
        <br />
        <strong>Price:</strong>
        <asp:Label ID="p_priceLabel" runat="server" Text='<%# Bind("p_price") %>' />
        <br />
        <strong>Quantity:</strong>
        <asp:Label ID="p_quantityLabel" runat="server" Text='<%#
Bind("p_quantity") %>' />
        <br />

```

```

        <strong>Image:</strong><br />
        <asp:Image ID="Image2" runat="server" Height="300px" ImageUrl='<%#
Eval("p_img") %>' Width="500px" />
        <br />

    </ItemTemplate>
    <PagerStyle BackColor="#CCCCCC" ForeColor="Black" HorizontalAlign="Left"
/>

    <RowStyle BackColor="White" />
    </asp:FormView>
    <br />
    <asp:DetailsView ID="DetailsView1" runat="server" AutoGenerateRows="False"
BackColor="#CCCCCC" BorderColor="#999999" BorderStyle="Solid" BorderWidth="3px"
CellPadding="4" CellSpacing="2" DataKeyNames="p_id" DataSourceID="SqlDataSource3"
ForeColor="Black" Height="50px" style="z-index: 1; left: 936px; top: 75px; position: absolute;
height: 76px; width: 125px; margin-right: 47px" Width="125px">
    <EditRowStyle BackColor="#000099" Font-Bold="True" ForeColor="White" />
    <Fields>
        <asp:BoundField DataField="p_id" HeaderText="Product Id" ReadOnly="True"
SortExpression="p_id">
            <HeaderStyle Font-Bold="True" />
        </asp:BoundField>
        <asp:BoundField DataField="p_name" HeaderText="Product Name"
SortExpression="p_name">
            <HeaderStyle Font-Bold="True" />
        </asp:BoundField>
        <asp:BoundField DataField="p_price" HeaderText="Product Price"
SortExpression="p_price">
            <HeaderStyle Font-Bold="True" />
        </asp:BoundField>
        <asp:BoundField DataField="p_quantity" HeaderText="Quantity"
SortExpression="p_quantity">
            <HeaderStyle Font-Bold="True" />
        </asp:BoundField>
        <asp:TemplateField HeaderText="Image">
            <ItemTemplate>
                <asp:Image ID="Image3" runat="server" Height="200px" ImageUrl='<%#
Eval("p_img") %>' Width="300px" />
            </ItemTemplate>
            <HeaderStyle Font-Bold="True" />
        </asp:TemplateField>
    </Fields>
    <FooterStyle BackColor="#CCCCCC" />
    <HeaderStyle BackColor="Black" Font-Bold="True" ForeColor="White" />
    <PagerStyle BackColor="#CCCCCC" ForeColor="Black" HorizontalAlign="Left"
/>

    <RowStyle BackColor="White" />
    </asp:DetailsView>
    <asp:SqlDataSource ID="SqlDataSource3" runat="server"
ConnectionString="<%%$ ConnectionStrings:ConnectionString %>"
SelectCommand="SELECT * FROM [Products] WHERE ([p_id] = @p_id)">
        <SelectParameters>
            <asp:ControlParameter ControlID="GridView1" Name="p_id"
PropertyName="SelectedValue" Type="Int32" />
        </SelectParameters>
    </asp:SqlDataSource>
</div>
</form>
</body>
</html>

```

Default.aspx.cs:



```
using System;
namespace gridview
{
    public partial class Default : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
    }
}
```

Products Table:

```
CREATE TABLE [dbo].[Products]
(
    [p_id] INT NOT NULL PRIMARY KEY,
    [p_name] NCHAR(10) NULL,
    [p_price] NCHAR(10) NULL,
    [p_quantity] INT NULL,
    [p_img] VARCHAR(50) NULL
)
```

	p_id	p_name	p_price	p_quantity	p_img
▶	101	Soap	10	30	~/soap.jpg
	102	Biscuit	10	40	~/biscuit.jpg
	103	Books	45	100	~/books.jpg
	104	TV	10000	2	~/tv.jpg
	105	pen	5	120	~/pen.jpg
	106	Chair	250	10	~/chair.jpg
⚙	NULL	NULL	NULL	NULL	NULL

Output:

