

Experiment – 4

Aim: Create Run time Table Control as per user requirement and display it on the page.

Procedure:

- Create Place Holder that enables us to place our run time created control on web page.
- Create 3 drop down list which allows user to select no. of rows, no. of columns and grid line.
- On pressing the submit button Table Control should be created as per selected values.

Code:

Experiment4.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Experiment4.aspx.cs" Inherits="Experiment4" %>
```

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head runat="server">
    <title>Table Generation</title>
    <style type="text/css">
      .s1 {
        width: 169px;
      }
      .auto-style1 {
        margin-right: 0px;
        margin-top: 0px;
      }
      .auto-style2 {
        margin-left: 0px;
        margin-bottom: 0px;
      }
    </style>
  </head>
  <body>
    <form id="form1" runat="server">
      <h1 class="auto-style2">Experiment-4</h1>
      <table class="auto-style1">
        <tr>
          <td class="s1">
            <asp:Label ID="lab_rows" runat="server" Text="Rows"></asp:Label></td>
          <td width="180px">
            <asp:DropDownList ID="DropDownRows" runat="server" width="180px">
              <asp:ListItem>1</asp:ListItem>
              <asp:ListItem>2</asp:ListItem>
              <asp:ListItem>3</asp:ListItem>
              <asp:ListItem>4</asp:ListItem>
              <asp:ListItem>5</asp:ListItem>
              <asp:ListItem>6</asp:ListItem>
            </asp:DropDownList>
          </td>
        </tr>
      </table>
    </form>
  </body>
</html>
```

```

<tr>
<td class="s1" >
    <asp:Label ID="lab_cols" runat="server" Text="Columns"></asp:Label>
</td>
<td >
    <asp:DropDownList ID="DropDownCols" runat="server" width="180px">
        <asp:ListItem>1</asp:ListItem>
        <asp:ListItem>2</asp:ListItem>
        <asp:ListItem>3</asp:ListItem>
        <asp:ListItem>4</asp:ListItem>
        <asp:ListItem>5</asp:ListItem>
        <asp:ListItem>6</asp:ListItem>
    </asp:DropDownList>
</td>
</tr>
<tr>
<td class="s1" >
    <asp:Label ID="lab_grid" runat="server" Text="Grid Lines"></asp:Label>
</td>
<td>
    <asp:DropDownList ID="DropDownGrid" runat="server" Width="180px">
        <asp:ListItem Value="0">None</asp:ListItem>
        <asp:ListItem Value="1">Horizontal</asp:ListItem>
        <asp:ListItem Value="2">Vertical</asp:ListItem>
        <asp:ListItem Value="3">Both</asp:ListItem>
    </asp:DropDownList>
</td>
</tr>

<tr>
    <br></br>
<td class="s1">
    <br/>
    <asp:Button ID="draw_table" runat="server" Text="Generate Table"
OnClick="drawTable" />
    <br />
</td>
</tr>
</table>
</form>

<div style="display:inline">
    <asp:Placeholder ID="display_table" runat="server" ></asp:Placeholder>
</div>
</body>
</html>

```

Experiment4.aspx.cs:

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

```

```

public partial class Experiment4 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }
    protected void drawTable(object sender, EventArgs e)
    {
        Table t = new Table();
        t.CellPadding = 10;
        t.CellSpacing = 10;
        int rows = Convert.ToInt32(DropDownRows.SelectedValue.ToString()); int cols
= Convert.ToInt32(DropDownCols.SelectedValue.ToString()); int grid =
Convert.ToInt32(DropDownGrid.SelectedValue.ToString());
        if (rows == -1)
            Response.Write("Invalid row numbers.");
        else if (cols == -1)
            Response.Write("Invalid column numbers.");
        else if (grid == -1)
            Response.Write("Invalid grid type.");
        else
        {
            t.GridLines = (GridLines)grid; for (int r = 0; r < rows; r++)
            {
                TableRow tr = new TableRow(); for (int c = 0; c < cols; c++)
                {
                    TableCell tc = new TableCell(); tc.Text = "[" + r + "]" + c + " ";
tr.Cells.Add(tc);
                }
                t.Rows.Add(tr);
            }
            display_table.Controls.Add(t);
        }
    }
}

```

Output Screenshots:

Preview:

Table Generation

localhost:64577/Experiment4.aspx

Experiment-4

Rows: 1

Columns: 1

Grid Lines: None

Generate Table

Table Generation

localhost:64577/Experiment4.aspx

Experiment-4

Rows

1

Columns

1

Grid Lines

None

Generate Table

[0][0]

Table Generation

localhost:64577/Experiment4.aspx

Experiment-4

Rows

2

Columns

3

Grid Lines

Horizontal

Generate Table

[0][0]	[0][1]	[0][2]
[1][0]	[1][1]	[1][2]

Table Generation

localhost:64577/Experiment4.aspx

Experiment-4

Rows

3

Columns

6

Grid Lines

Vertical

Generate Table

[0][0]	[0][1]	[0][2]	[0][3]	[0][4]	[0][5]
[1][0]	[1][1]	[1][2]	[1][3]	[1][4]	[1][5]
[2][0]	[2][1]	[2][2]	[2][3]	[2][4]	[2][5]



Experiment-4

Rows

6



Columns

6



Grid Lines

Both

Generate Table

[0][0]	[0][1]	[0][2]	[0][3]	[0][4]	[0][5]
[1][0]	[1][1]	[1][2]	[1][3]	[1][4]	[1][5]
[2][0]	[2][1]	[2][2]	[2][3]	[2][4]	[2][5]
[3][0]	[3][1]	[3][2]	[3][3]	[3][4]	[3][5]
[4][0]	[4][1]	[4][2]	[4][3]	[4][4]	[4][5]
[5][0]	[5][1]	[5][2]	[5][3]	[5][4]	[5][5]