CONTROLS OF AJAX

(A) <u>ScriptManager and UpdatePanel</u>

<u>Default.aspx</u>

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default2.aspx.cs" Inherits="Default2" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>

  <form id="form1" runat="server">
   <asp:ScriptManager ID="MainScriptManager" runat="server" />

    <asp:UpdatePanel ID="pnlHelloWorld" runat="server">

      <ContentTemplate>
        <asp:Label runat="server" ID="lblHelloWorld" Text="Click the button!" />
        <br /><br />
        <asp:Button runat="server" ID="btnHelloWorld" OnClick="btnHelloWorld_Click"
          Text="Click Here" BorderStyle="Double" />
      </ContentTemplate>

    </asp:UpdatePanel>
  </form>

</body>
</html>
```
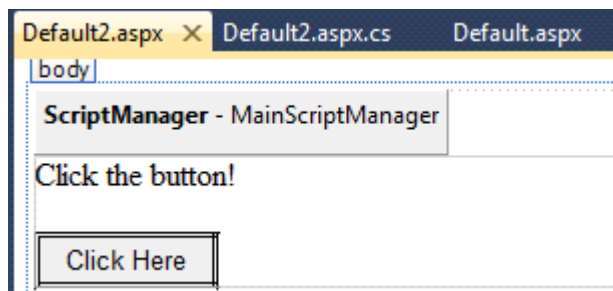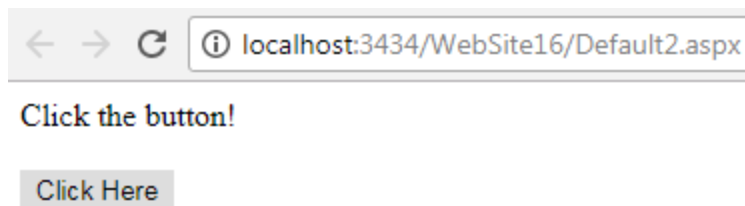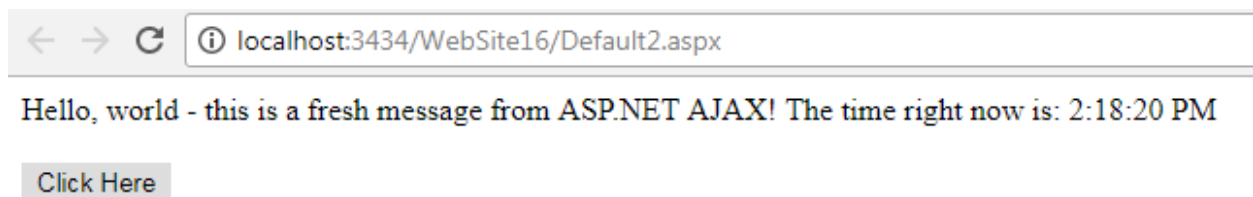
<u>Form Design</u>

Default.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 Default2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }
    protected void btnHelloWorld_Click(object sender, EventArgs e)
    {
        lblHelloWorld.Text = "Hello, world - this is a fresh message from ASP.NET AJAX! The time right now
is: " + DateTime.Now.ToLongTimeString();
    }
}
```

OUTPUT:

1) When You run the application and click the Button

localhost:3434/WebSite16/Default2.aspx

Click the button!

Click Here

2) After clicking the Button

localhost:3434/WebSite16/Default2.aspx

Hello, world - this is a fresh message from ASP.NET AJAX! The time right now is: 2:18:20 PM
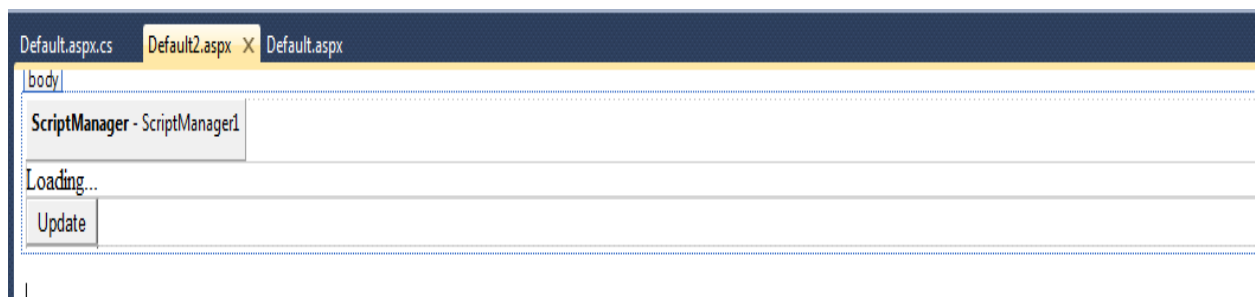
Click Here

(B) UpdateProgress

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
   <title>UpdateProgress control</title>
</head>
<body>
   <form id="form1" runat="server">
      <asp:ScriptManager ID="ScriptManager1" runat="server" />
      <asp:UpdateProgress runat="server" id="PageUpdateProgress">
         <ProgressTemplate>
            Loading...
         </ProgressTemplate>
      </asp:UpdateProgress>
      <asp:UpdatePanel runat="server" id="Panel">
         <ContentTemplate>
            <asp:Button runat="server" id="UpdateButton" onclick="UpdateButton_Click" text="Update"
/>
         </ContentTemplate>
      </asp:UpdatePanel>
   </form>
</body>
</html>
```

Form Design

Default.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 _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }
    protected void UpdateButton_Click(object sender, EventArgs e)
    {
        System.Threading.Thread.Sleep(5000);
    }
}
```
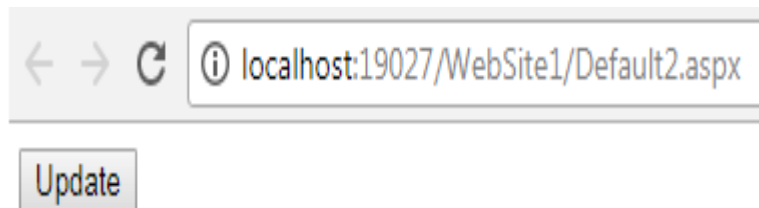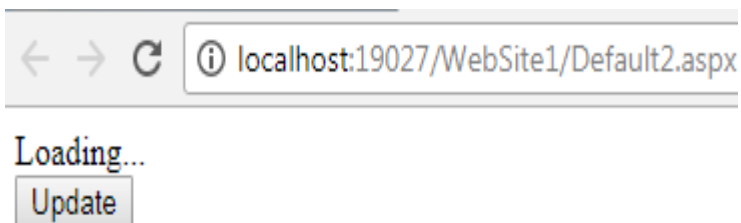
OUTPUT:

1.) When You run your project

2.) After Clicking Update button….

(C) Timer

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
   <title>Timers</title>
</head>

<body>

   <form id="form1" runat="server">
     <asp:ScriptManager ID="ScriptManager1" runat="server" />

     <asp:Timer runat="server" id="UpdateTimer" interval="5000" ontick="UpdateTimer_Tick" />

     <asp:UpdatePanel runat="server" id="TimedPanel" updatemode="Conditional">

       <Triggers>
          <asp:AsyncPostBackTrigger controlid="UpdateTimer" eventname="Tick" />
       </Triggers>

       <ContentTemplate>

          <asp:Label runat="server" id="DateStampLabel" />
       </ContentTemplate>

     </asp:UpdatePanel>
   </form>
</body>
</html>
```
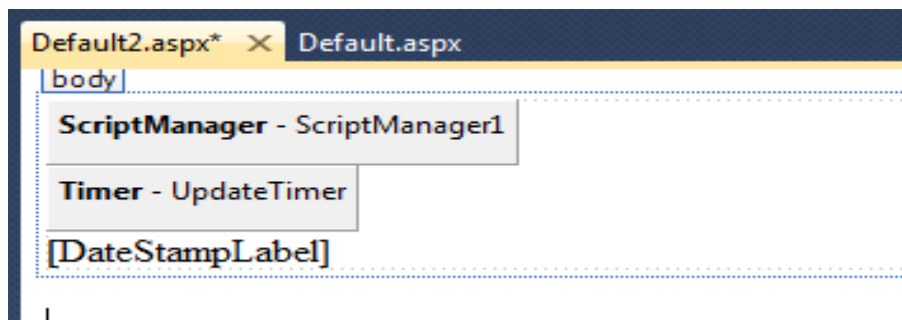
Form Design

Default.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 _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }
    protected void UpdateTimer_Tick(object sender, EventArgs e)
    {
        DateStampLabel.Text = DateTime.Now.ToString();
    }
}
```
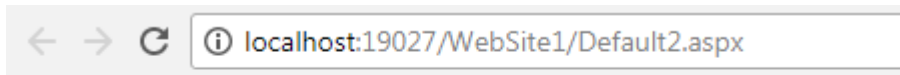
OUTPUT:

1) When You Run Your Form

Time is:

2) After some second Time will get displayed

Time is:

4/12/2018 1:17:48 PM