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Class: FYMCA

Division: A

Roll No: 202124

Slip No 24

Q1	Create a Web form for an online book library. This form must be accept the Membership Id of the person who borrowing a book, the name and book ID as well as author name . On submitting the form, the details of the book should be displayed on a new page and the user (the person who borrowing the book) must be thanked and informed of the returning date of the book.	15Marks
Q2	Create a Web Service to convert distance in centimeters to meter. Consume this web service in a web application.	15Marks

Q1. Create a Web form for an online book library. This form must be accepting the Membership Id of the person who borrowing a book, the name and book ID as well as author name. On submitting the form, the details of the book should be displayed on a new page and the user (the person who borrowing the book) must be thanked and informed of the returning date of the book.

Code:

BookBorrow.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Borrow Book Registration</title>
    <style>
    body {
        background-color: #F3EBF6;
        font-family: 'Ubuntu', sans-serif;
        background-image: url('images.jpg');
        background-repeat:no-repeat;
        background-size:100% 100%;
    }

    .main {
        background-color: #FFFFFF;
        width: 400px;
        height: 500px;
        margin: 7em auto;
        border-radius: 1.5em;
        box-shadow: 0px 11px 35px 2px rgba(0, 0, 0, 0.14);
    }

    .sign {
        padding-top: 40px;
        color: #8C55AA;
        font-family: 'Ubuntu', sans-serif;
        font-weight: bold;
        font-size: 23px;
    }
    }
```

```

.un {
width: 76%;
color: rgb(38, 50, 56);
font-weight: 700;
font-size: 14px;
letter-spacing: 1px;
background: rgba(136, 126, 126, 0.04);
padding: 10px 20px;
border: none;
border-radius: 20px;
outline: none;
box-sizing: border-box;
border: 2px solid rgba(0, 0, 0, 0.02);
margin-bottom: 50px;
margin-left: 46px;
text-align: center;
margin-bottom: 27px;
font-family: 'Ubuntu', sans-serif;
}

form.form1 {
padding-top: 40px;
}

.pass {
width: 76%;
color: rgb(38, 50, 56);
font-weight: 700;
font-size: 14px;
letter-spacing: 1px;
background: rgba(136, 126, 126, 0.04);
padding: 10px 20px;
border: none;
border-radius: 20px;
outline: none;
box-sizing: border-box;
border: 2px solid rgba(0, 0, 0, 0.02);
margin-bottom: 50px;
margin-left: 46px;
text-align: center;
margin-bottom: 27px;
font-family: 'Ubuntu', sans-serif;
}

.un:focus, .pass:focus {
border: 2px solid rgba(0, 0, 0, 0.18) !important;
}

.submit {
cursor: pointer;
border-radius: 5em;
color: #fff;
background: #3b7be3;
border: 0;
padding-left: 40px;
padding-right: 40px;
padding-bottom: 10px;
padding-top: 10px;
font-family: 'Ubuntu', sans-serif;
margin-left: 35%;
font-size: 13px;
box-shadow: 0 0 20px 1px rgba(0, 0, 0, 0.04);
}

.forgot {
text-shadow: 0px 0px 3px rgba(117, 117, 117, 0.12);
color: #E1BEE7;
}

```

```

        padding-top: 15px;
    }

    a {
        text-shadow: 0px 0px 3px rgba(117, 117, 117, 0.12);
        color: #E1BEE7;
        text-decoration: none
    }
    @media (max-width: 600px) {
        .main {
            border-radius: 0px;
        }
    }
</style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="main">
            <p class="sign" align="center">Please Enter Book Details</p>
            <asp:TextBox ID="TextBox1" runat="server" CssClass="un" placeholder="Membership ID"
TextMode="Number" required="required" MaxLength="10"></asp:TextBox>
            <asp:TextBox ID="TextBox2" runat="server" CssClass="un" placeholder="Book Name"
required="required" MaxLength="20"></asp:TextBox>
            <asp:TextBox ID="bookID" runat="server" CssClass="un" placeholder="Book ID"
TextMode="Number" required="required"></asp:TextBox>
            <asp:TextBox ID="TextBox4" runat="server" CssClass="un" placeholder="Author Name"
required="required" MaxLength="20"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" Text="Submit" class ="submit"
OnClick="sendUserData"/>
        </div>
    </form>
</body>
</html>

```

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

    }

    public void sendUserData(object sender, EventArgs e) {
        string bookId = bookID.Text;
        string bookName = TextBox2.Text;
        string authorName = TextBox4.Text;
        Session["bookId"] = bookId;
        Session["bookName"] = bookName;
        Session["author"] = authorName;
        Response.Redirect("ThankYouPage.aspx");
    }
}

```

ThankYouPage.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Thank you!</title>
    <link href="//maxcdn.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.css" rel="stylesheet"/>
    <script src="//maxcdn.bootstrapcdn.com/bootstrap/4.1.1/js/bootstrap.min.js"></script>
    <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
</head>
<body>
    <form id="form1" runat="server">
        <div class="thankyou-page">
            <div class="_header">
                <div class="logo">
                    
                </div>
                <h1>Thank You!</h1>
            </div>
            <div class="_body">
                <div class="_box">
                    <h2>
                        <strong>Please check your email</strong> for further instructions on how to
complete your account setup.
                    </h2>
                    <p>
                        Thanks a bunch for filling that out. It means a lot to us, just like you do!
We really appreciate you giving us a moment of your time today. Thanks for being you.
                    </p>
                    <br />
                    <b>Book Name: <asp:Label runat="server" ID="bookName" Text=""></asp:Label>
                        <br />
                        Book Id: <asp:Label runat="server" ID="bookId" Text=""></asp:Label>
                        <br />
                        Author Name: <asp:Label runat="server" ID="authorName" Text=""></asp:Label>
                        <br />
                        Return Date: <asp:Label runat="server" ID="returnDate"
Text="Date"></asp:Label>
                        <br />
                    </b>
                </div>
            </div>
        </div>
    </form>
</body>
</html>
```

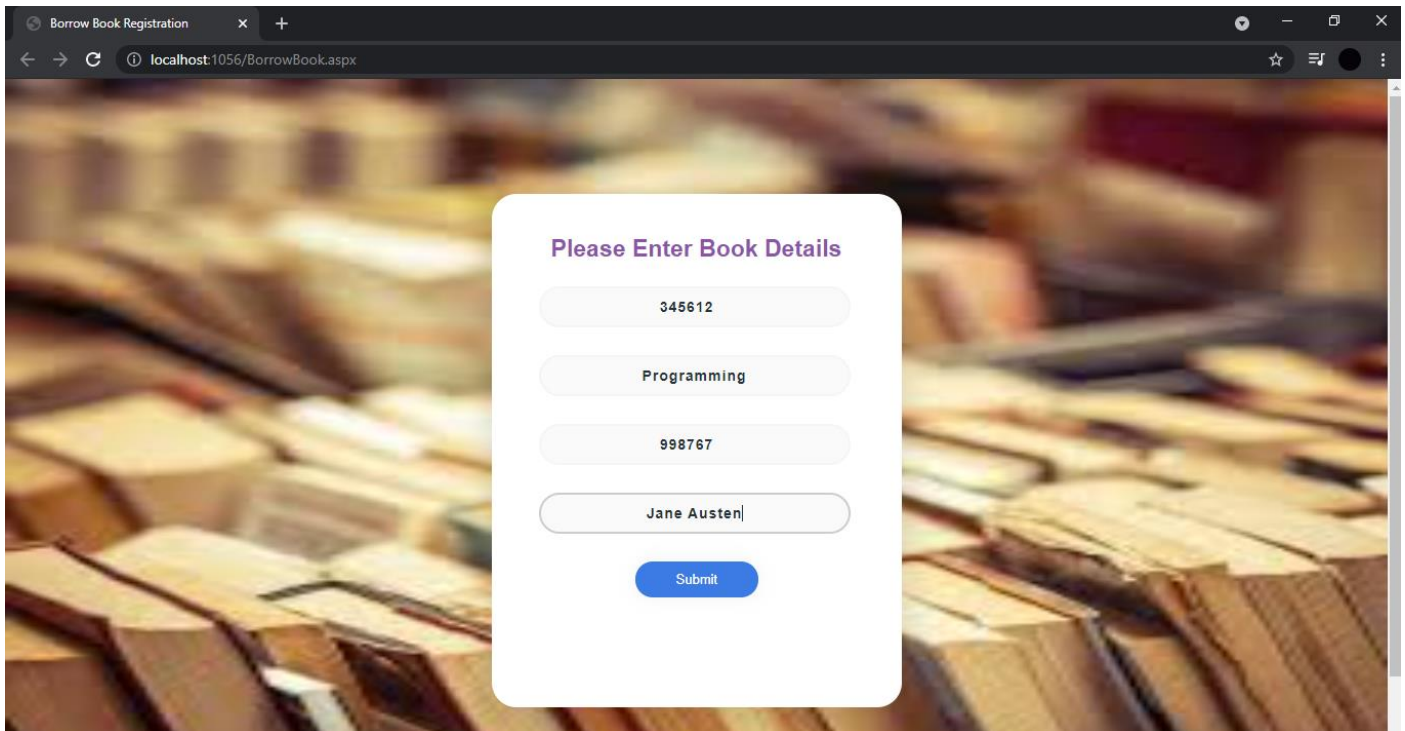
ThankYouPage.aspx.cs

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

public partial class ThankYouPage : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        bookName.Text = Session["bookName"].ToString();
        bookId.Text = Session["bookId"].ToString();
        authorName.Text = Session["author"].ToString();
    }
}
```

```
        returnDate.Text = DateTime.Today.AddDays(10).ToString();  
    }  
}
```

Output:



Borrow Book Registration

localhost:1056/BorrowBook.aspx

Please Enter Book Details

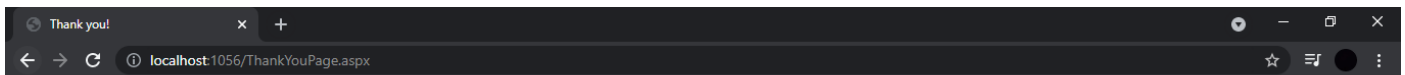
345612

Programming

998767

Jane Austen

Submit



Thank You!

Please check your email for further instructions on how to complete your account setup.

Thanks a bunch for filling that out. It means a lot to us, just like you do! We really appreciate you giving us a moment of your time today. Thanks for being you.

Book Name: Programming

Book Id: 998767

Author Name: Jane Austen

Return Date: 02-09-2021 00:00:00

Q2. Create a Web Service to convert distance in centimeters to meter. Consume this web service in a web application

Code:

Default.aspx

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

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<style>
```

```
body {
```

```
background-color: #F3EBF6;
```

```
font-family: 'Ubuntu', sans-serif;
```

```
}
```

```
.main {
```

```
background-color: #FFFFFF;
```

```
width: 400px;
```

```
height: 800px;
```

```
margin: 7em auto;
```

```
border-radius: 1.5em;
```

```
box-shadow: 0px 11px 35px 2px rgba(0, 0, 0, 0.14);
```

```
}
```

```
.sign {
```

```
padding-top: 40px;
```

```
color: #8C55AA;
```

```
font-family: 'Ubuntu', sans-serif;
```

```
font-weight: bold;
```

```
font-size: 23px;
```

```
}
```

```
.un {
```

```
width: 76%;
```

```
color: rgb(38, 50, 56);
```

```
font-weight: 700;
```

```
font-size: 14px;
```

```
letter-spacing: 1px;
```

```
background: rgba(136, 126, 126, 0.04);
```

```
padding: 10px 20px;
```

```
border: none;
```

```
border-radius: 20px;
```

```
outline: none;
```

```
box-sizing: border-box;
```

```
border: 2px solid rgba(0, 0, 0, 0.02);
```

```
margin-bottom: 50px;
```

```
margin-left: 46px;
```

```
text-align: center;
```

```
margin-bottom: 27px;
```

```
font-family: 'Ubuntu', sans-serif;
```

```
}
```

```
form.form1 {
```

```
padding-top: 40px;
```

```
}
```

```
.pass {
```

```
width: 76%;
```

```
color: rgb(38, 50, 56);
```

```
font-weight: 700;
```

```
font-size: 14px;
```

```
letter-spacing: 1px;
```

```
background: rgba(136, 126, 126, 0.04);
```

```
padding: 10px 20px;
```

```

border: none;
border-radius: 20px;
outline: none;
box-sizing: border-box;
border: 2px solid rgba(0, 0, 0, 0.02);
margin-bottom: 50px;
margin-left: 46px;
text-align: center;
margin-bottom: 27px;
font-family: 'Ubuntu', sans-serif;
}

.un:focus, .pass:focus {
    border: 2px solid rgba(0, 0, 0, 0.18) !important;
}

.submit {
    cursor: pointer;
    border-radius: 5em;
    color: #fff;
    background: #3b7be3;
    border: 0;
    padding-left: 40px;
    padding-right: 40px;
    padding-bottom: 10px;
    padding-top: 10px;
    font-family: 'Ubuntu', sans-serif;
    margin-left: 35%;
    font-size: 13px;
    box-shadow: 0 0 20px 1px rgba(0, 0, 0, 0.04);
}

.forgot {
    text-shadow: 0px 0px 3px rgba(117, 117, 117, 0.12);
    color: #E1BEE7;
    padding-top: 15px;
}

a {
    text-shadow: 0px 0px 3px rgba(117, 117, 117, 0.12);
    color: #E1BEE7;
    text-decoration: none
}

@media (max-width: 600px) {
    .main {
        border-radius: 0px;
    }
}
</style>
<link rel="stylesheet" href="css/style.css"/>
<link href="https://fonts.googleapis.com/css?family=Ubuntu" rel="stylesheet"/>
<meta name="viewport" content="width=device-width, initial-scale=1" />
<link rel="stylesheet" href="path/to/font-awesome/css/font-awesome.min.css"/>
<title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <p class="sign" align="center">CM to Meter Converter</p>
            <asp:TextBox ID="TextBox1" runat="server" CssClass="un" placeholder="Enter Value in CM"
TextMode="Number" required="required" MaxLength="10"></asp:TextBox>
            <asp:Button ID="sendData" runat="server" Text="View" class ="submit"
OnClick="calculate"/>
            <br />
            <b>
                After Converting CM to M The Answer is: <asp:Label ID="answer" runat="server"
Text=""></asp:Label>

```

```

        </b>
    </div>
</form>
</body>
</html>

```

Default.aspx.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using ServiceReference1;

public partial class _Default : System.Web.UI.Page
{
    WebService objectCal = new WebService();
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    public void calculate(object sender, EventArgs e) {
        int cm = Convert.ToInt32(TextBox1.Text);
        answer.Text = objectCal.calculate(cm);
    }
}

```

WebService.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;

/// <summary>
/// Summary description for WebService
/// </summary>
[WebService(Namespace = "http://tempuri.org/")]
[WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
// To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the following line.
// [System.Web.Script.Services.ScriptService]
public class WebService : System.Web.Services.WebService
{

    public WebService()
    {
        //Uncomment the following line if using designed components
        //InitializeComponent();
    }

    [WebMethod]
    public string HelloWorld()
    {
        return "Hello World";
    }
}

```

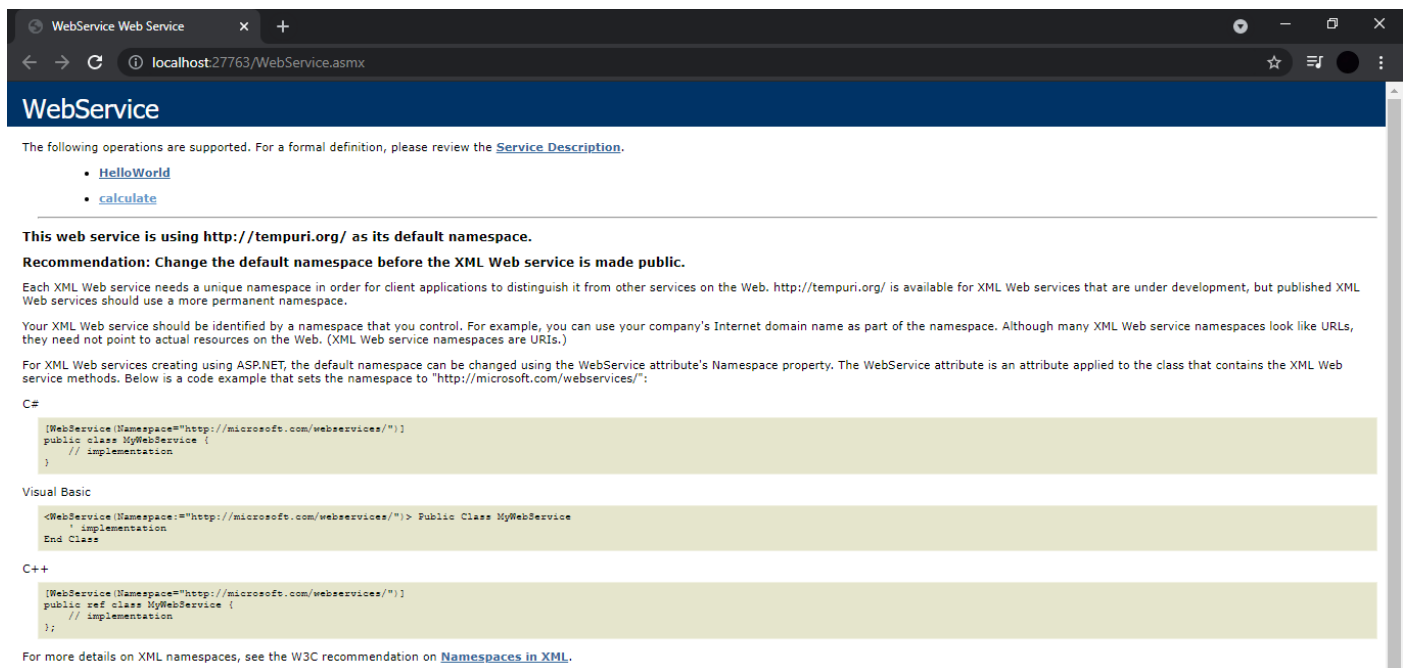
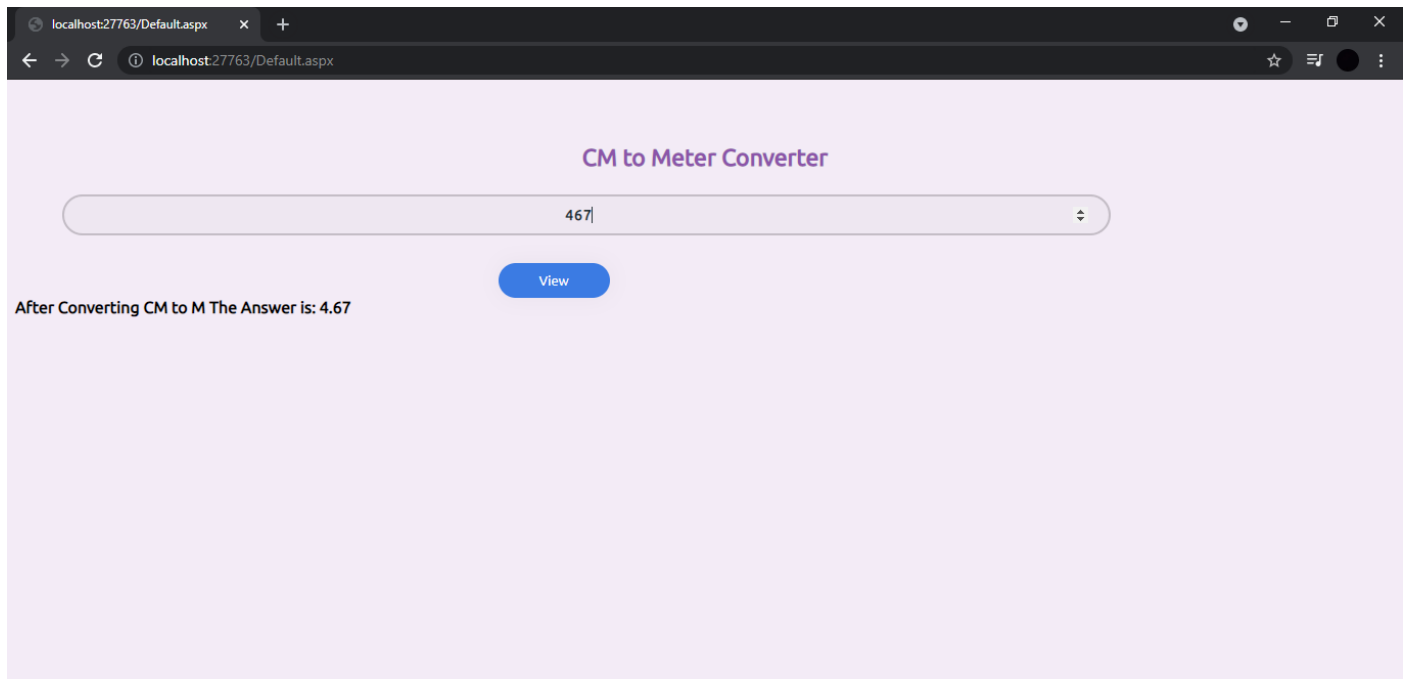


```

[WebMethod]
public string calculate(float cm)
{
    float meter = cm/100;
    return meter.ToString();
}
}

```

Output:



WebService

Click [here](#) for a complete list of operations.

calculate

Test

To test the operation using the HTTP POST protocol, click the 'Invoke' button.

Parameter	Value
cm:	<input type="text"/>

SOAP 1.1

The following is a sample SOAP 1.1 request and response. The [placeholders](#) shown need to be replaced with actual values.

```
POST /WebService.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://tempuri.org/calculate"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <calculate xmlns="http://tempuri.org/">
      <cm>float</cm>
    </calculate>
  </soap:Body>
</soap:Envelope>
```