

WEB PROGRAMMING LAB

Web Programming Lab Manual For Vth Sem CBCS (2019-2020)

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WEB PROGRAMMING LAB

Program 1

The document must have a paragraph of text that describes your home. Choose atleast three different phrases (3 to 6 words) of this paragraph and make them change font, font style, color and font size when the mouse cursor is placed over them. Each of the different phrases must change to different fonts, font styles, colors and font sizes

```
<html>
<head>
<title> dynamic fonts </title>
<style type = "text/css">
    .regtext { font : 16pt 'Times new Roman'}
    .wordtext { color : blue; }
    .regtext1 { font : 16pt 'arial' }
    .wordtext1 { color : green; }
    .regtext2 { font : 16pt 'Roman' }
    .wordtext2 { color : red; }
</style>
</head>
<body>
    <p class = "regtext" >
        My apartment name is
        <span class = "wordtext";
        onmouseover = "this.style.color = 'red'; this.style.font = 'italic 18pt Times new Roman';"
        onmouseout = "this.style.color = 'violet'; this.style.font = 'italic 18pt Times new Roman';">
        Golden Grands
        </span>
    </p>

    <p class = "regtext1" >
        It is located at
        <span class = "wordtext1";
        onmouseover = "this.style.color = 'orange' ; this.style.font = 'bold 18pt Verdana';"
        onmouseout = "this.style.color = 'brown' ; this.style.font = 'italic 18pt Constantia';">
        Yeshwanthpur
        </span>
        NH4 road, Bangalore - 23.
    </p>

    <p class = "regtext2" >
        and it has 3 bedrooms, 1 living room, 1 kitchen
        <span class = "wordtext2"; onmouseover = "this.style.color = 'yellow';
        this.style.font = 'italic 18pt NSimsun';" onmouseout = "this.style.color = 'blue';
        this.style.font = 'italic 18pt NSimSun';">
        1 club house
        </span>
        with a beautiful garden
    </p>
</body>
</html>
```

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Save file as .html file. And open file in browser. OUTPUT

My apartment name is Golden Grands

It is located at Yeshwanthpur NH4 road, Bangalore - 23.

and it has 3 bedrooms, 1 living room, 1 kitchen 1 club house with a beautiful garden

My apartment name is *Golden Grands*

It is located at **Yeshwanthpur** NH4 road, Bangalore - 23.

and it has 3 bedrooms, 1 living room, 1 kitchen *1 club house* with a beautiful garden

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Program 2

The document must contain four short paragraphs of text stacked on top of each other with only enough of each showing so that the mouse cursor can also be placed over some part of them. When the cursor is placed over the exposed part of any paragraph it should raise to the top to become completely visible.

```
<html>
<head>
<title> Dynamic stacking of paragraphs </title>
<script type = "text/javascript">
    var oldTop="p1";
    function toTop(newTop)
    {
        var domTop=document.getElementById(oldTop).style;
        var domNew=document.getElementById(newTop).style;
        domTop.zIndex=0;
        domNew.zIndex=10;
        oldTop=newTop;
    }

</script>
<style type = "text/css">
    .para1{ color:brown; position:absolute; top:90px;
        left:150px; zIndex=0; background-Color:lime; }
    .para2{ color:black; position:absolute; top:130px;
        left:200px; zIndex=0; background-Color:orange; }
    .para3{ color:blue; position:absolute; top:170px;
        left:250px; zIndex=0; background-Color:yellow; }
    .para4{ color:white; position:absolute; top:210px;
        left:300px; zIndex=0; background-Color:grey; }
</style>
</head>
<body bgcolor = "white">
<p class = "para1" id = "p1" onmouseover = "toTop('p1');" >
Iam sarala, <br> Iam a computer science student. <br> Reg no 102CS12017</br>
Iam coming from Bommanahalli.</p>

<p class="para2" id="p2" onmouseover="toTop('p2');" >
Iam Kavya, <br> Iam a computer science student. <br> Reg no 102CS12019</br>
Iam coming from chamrajpet.</p>

<p class="para3" id="p3" onmouseover="toTop('p3');" >
Iam Arpitha, <br> Iam a computer science student. <br> Reg no 102CS12003</br>
Iam comin from Deepanjalinar.</p>

<p class="para4" id="p4" onmouseover="toTop('p4');" >
Iam Yamuna, <br> Iam a computer science student. <br> Reg no 102CS12016 </br>Iam coming from
Tinfactory.</p>
</body>
</html>
```

WEB PROGRAMMING LAB

Iam Kamali,
Iam a computer science student.
Reg no Iam Kavya,
Iam con Iam a computer science student.
Reg no Iam Arpitha,
Iam con Iam a computer science student.
Reg no Iam Yamuna,
Iam con Iam a computer science student.
Reg no 102CS14016
Iam coming from Tinfactory.

Iam Kamali,
Iam a computer science student.
Reg no Iam Kavya,
Iam con Iam a computer science student.
Reg no Iam Arpitha,
Iam con Iam a computer science student.
Reg no 102CS14003
Iam coming from Deepanjalinagar
Reg no 102CS14016
Iam coming from Tinfactory.

Save file as .html file. And open file in browser. On movement of mouse, over any paragraph, it will come on top.

WEB PROGRAMMING LAB

Program 3

Design an XML document to store information about patients in a hospital. Information about patients must include name (in 3 parts, first name, middle name, last name), social security number (SSN), age, room number, primary insurance company – including member identification number, group number and address – secondary insurance company (in the same sub parts as for the primary insurance company), known medical problems, and known drug allergies. Both attributes and nested tags must be included. Make up sample data of atleast 4 patients. Create a CSS style sheet for the above XML document and use it to create a display of that document.

XML File

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="p3.css"?>

<patients><patient>
    <name>
        <fname> sanjay </fname>
        <mname> s</mname>
        <lname> Srinivas</lname>
    </name>

    <ssn> 100 </ssn>
    <age> 80</age>
    <roomnumber> 420 </roomnumber>
    <insurance type="Primary">
        <id> 10 </id>
        <address> Yeshwanthpura</address>
    </insurance>

    <insurance type="Secondary">
        <id>20 </id>
        <address> jayanagar </address>
    </insurance>
    <medproblems> Bp </medproblems>
    <drugallergy>None</drugallergy>

</patient>
<patient>
    <name>
        <fname> rakshith </fname>
        <mname> gm</mname>
        <lname> gowda</lname>
    </name>

    <ssn> 101 </ssn>
```

WEB PROGRAMMING LAB

```
<age> 41</age>
<roomnumber> 421 </roomnumber>
<insurance type="Primary">
  <id> 111</id>
  <address> jp nagar
</address>
</insurance>

<insurance type="Secondary">
  <id>112 </id>
  <address> vijayanagar </address>
</insurance>

<medproblems> vitamin deficiency </medproblems>
<drugallergy>Cold</drugallergy>
</patient>
```

```
<patient>
  <name>
    <fname> rudresh </fname>
    <mname> g</mname>
    <lname> gowda </lname>
  </name>

  <ssn> 102 </ssn>
  <age> 42</age>
  <roomnumber> 422 </roomnumber>
  <insurance type="Primary">
    <id> 113 </id>
    <address> mathikere </address>
  </insurance>

  <insurance type="Secondary">
    <id> 114</id>
    <address> jp</address>
  </insurance>
  <medproblems>cancer </medproblems>
  <drugallergy>Swelling</drugallergy>
</patient>
<patient>
  <name>
    <fname> kumar </fname>
    <mname> v</mname>
    <lname>gowda</lname>
  </name>

  <ssn> 103</ssn>
  <age> 41</age>
  <roomnumber> 423 </roomnumber>
  <insurance type="Primary">
    <id> 113 </id>
```

WEB PROGRAMMING LAB

```
        <address> malleshwaram. </address>
    </insurance>
    <insurance type="Secondary">
        <id> 115</id>
        <address> j.p.v nagar</address>
    </insurance>
    <medproblems> coma </medproblems>
    <drugallergy>None</drugallergy>
</patient>
</patients>
```

Save above file as .xml(eg:p3.xml)

p3.css

```
patient
{
    display:block;
    margin-left:5%;
    border:solid blue 2px;
    padding:4px;
}
name
{
    display:block;
    color:blue;
    margin-left:10%;
    font-family:bold times new roman;
    font-size:25px;
}
ssn
{
    display:block;
    color:blue;
    margin-left:10%;
    font-family:arial;
    font-size:14px;
}
age
{
    display:block;
    color:pink;
    margin-left:10%;
    font-family:Times new roman;
    font-size:14px;
}
roomnumber
{
    display:block;
    color:green;
    margin-left:10%;
}
```


WEB PROGRAMMING LAB

```
font-family:chiller;
font-size:24px;
}
id
{
    display:block;
    color:black;
    margin-left:10%;
    font-family:gigi;
    font-size:20px;
}
gn
{
    display:block;
    color:voilet;
    margin-left:10%;
    font-family:arial;
    font-size:14px;
}
address
{
    color:brown;
    font-family:script;
    font-weight:italic;
    font-size:30px;
    margin-left:5%;
}
medproblems
{
    display:block;
    color:orange;
    font-family:script;
    font-weight:italic;
    font-size:30px;
    margin-left:5%
}
drugallergy
{
    display:block;
    color:gray;
    font-family:script;
    font-weight:bold;
    font-size:30px;
    margin-left:5%
}
```

Save above file as p3.css.

Save both .xml and .css files in same directory. And open xml file in browser to view output

OUTPUT

sanjay s Srinivas

100

80

420

10

Yeshwantapura

20

jayanagar

Bp

None

rakshith gm gowda

101

41

421

111

jp nagar

112

vijayanagar

vitamin deficiency

Cold

rudresh g gowda

102

42

422

113

mathikere

114

jp

cancer

Swelling

kumar v gowda

103

41

423

113

malleswaram.

115

j.p.v nagar

coma

None

Create the XSLT style sheet to format all the patient elements of the XML, document of exercise 3 and use it to create a display of whole element.

XML File

```
<?xml version="1.0" encoding="utf-8"?>
<?xml-stylesheet type="text/xsl" href="p4.xsl"?>

<patients><patient>
    <name>
        <fname> sanjay </fname>
        <mname> s</mname>
        <lname> Srinivas</lname>
    </name>

    <ssn> 100 </ssn>
    <age> 80</age>
    <roomnumber> 420 </roomnumber>
    <insurance type="Primary">
        <id> 10 </id>
        <address> Yeshwanthpura</address>
    </insurance>
    <insurance type="Secondary">
        <id>20 </id>
        <address> jayanagar </address>
    </insurance>
    <medproblems> Bp </medproblems>
    <drugallergy>None</drugallergy>

</patient>
<patient>
    <name>
        <fname> rakshith </fname>
        <mname> gm</mname>
        <lname> gowda</lname>
    </name>
    <ssn> 101 </ssn>
    <age> 41</age>
    <roomnumber> 421 </roomnumber>
    <insurance type="Primary">
        <id> 111</id>
        <address> jp nagar
        </address>
    </insurance>
    <insurance type="Secondary">
        <id>112 </id>
        <address> vijayanagar </address>
    </insurance>
```

WEB PROGRAMMING LAB

```
<medproblems> vitamin deficiency </medproblems>
<drugallergy>Cold</drugallergy>
</patient>
```

```
<patient>
  <name>
    <fname> rudresh </fname>
    <mname> g</mname>
    <lname> gowda </lname>
  </name>

  <ssn> 102 </ssn>
  <age> 42</age>
  <roomnumber> 422 </roomnumber>
  <insurance type="Primary">
    <id> 113 </id>
    <address> mathikere </address>
  </insurance>

  <insurance type="Secondary">
    <id> 114</id>
    <address> jp</address>
  </insurance>
  <medproblems>cancer </medproblems>
  <drugallergy>Swelling</drugallergy>
</patient>
```

```
<patient>
  <name>
    <fname> kumar </fname>
    <mname> v</mname>
    <lname>gowda</lname>
  </name>
  <ssn> 103</ssn>
  <age> 41</age>
  <roomnumber> 423 </roomnumber>
  <insurance type="Primary">
    <id> 113 </id>
    <address> malleshwaram. </address>
  </insurance>
  <insurance type="Secondary">
    <id> 115</id>
    <address> j.p.v nagar</address>
  </insurance>
  <medproblems> coma </medproblems>
  <drugallergy>None</drugallergy>
</patient>
```

```
</patients>
```

Save above file as .xml (eg:p4.xml)

p4.xsl

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
    <html>
    <body>
        <h2> Patient Information </h2>
        <table border="2">
            <tr bgcolor="orange">
                <th> SSN </th>
                <th> Name </th>
                <th> Age </th>
                <th> Room </th>
                <th>Primary insurance Company</th>
                <th>secondary insurance Company</th>
                <th>Medical problem</th>
                <th>Drug Allergy</th>
            </tr>
            <xsl:for-each select="patients/patient">
                <tr>
                    <td> <xsl:value-of select="ssn"/> </td>
                    <td> <xsl:value-of select="name/fname"/> </td>
                    <td> <xsl:value-of select="age"/> </td>
                    <td> <xsl:value-of select="roomnumber"/> </td>
                    <td><xsl:value-of select="insurance[1]/address"/> </td>
                    <td><xsl:value-of select="insurance[2]/address"/> </td>
                    <td> <xsl:value-of select="medproblems"/> </td>
                    <td> <xsl:value-of select="drugallergy"/> </td>
                </tr>
            </xsl:for-each>
        </table>
    </body>
    </html>
</xsl:template>
</xsl:stylesheet>
```

Save file as p4.xsl file

Open xml file in browser to view the below output

Patient Information

SSN	Name	Age	Room	Primary insurance Company	secondary insurance Company	Medical problem	Drug Allergy
100	sanjay	80	420	Yeshwanthpura	jayanagar	Bp	None
101	rakshith	41	421	jp nagar	vijayanagar	vitamin deficiency	Cold
102	rudresh	42	422	mathikere	jp	cancer	Swelling
103	kumar	41	423	malleshwaram.	j.p.v nagar	coma	None

WEB PROGRAMMING LAB

Program 5

Write an XHTML document to include an anchor tag, that calls a PHP document also write the called PHP document which returns a randomly chosen greeting from a list of five different greetings. The greetings must be stored as constant strings in the script. A random number between 0 and 4 can be computed with these line. #set the seed for mtrand with the number of microseconds #since the last full second of the clock `mt_strand((double) microtime() * 1000000); $number=mtrand(0,4); #computes a random integer 0-4` Write the PHP script for above to count the number of visitors and display that number for each visitor. Hint: Use a file to store current count

HTML File

```
<html>
  <head>
    <title>Preferred Greeting</title>
  </head>
  <body>
    Do you prefer a formal greeting or an informal greeting? <br> >>
    <a href="http://localhost/p5.php"> Display greeting </a>
    <br>
    <br>
    <br>
    click <a href="http://localhost/countvisitors.php">here</a> to know Total no of vistors
    visited the site
  </body>
</html>
```

P5.php

```
<?php

    $greeting = array();

    $greeting[0] = "Hello, how are you?";

    $greeting[1] = "Hi, how are you?";

    $greeting[2] = "Welcome to my page";

    $greeting[3] = "Good Morning";

    $greeting[4] = "Good evening";

    $n = mt_rand(0, 4);

    echo $greeting[$n];

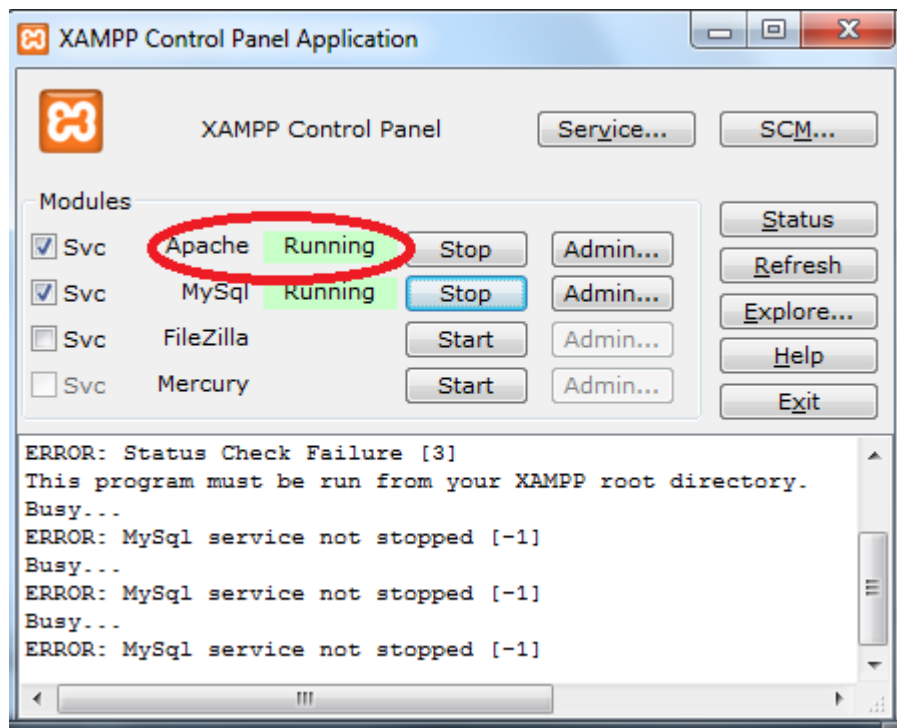
?>
```

countvisitors.php

```
<!-- PHP script to count the visitors -->
<?php
    $fname = "Count.txt";
    $count[1] = 1;
    if(file_exists($fname))
    {
        $count = file_get_contents($fname);
        $count = explode("=", $count);
        $count[1] = $count[1]+1; // $count[1] += 1;
    }
    $file = fopen($fname, "w+");
    fwrite($file, "Count = ".$count[1]);
    fclose($file);
    print "Previous visitors are..<br>";
    for ($x = 1; $x < $count[1]; $x++)
    {
        echo " $x <br>";
    }
    print "You are visitor number = ".$count[1];
?>
```

Running the program

1. Install the xampp
2. Save the p5.php and countvisitors.php in the c:\xampp\htdocs
3. Start the apache from xampp control panel



WEB PROGRAMMING LAB

Open html file in browser to see below links. On click of links random greeting and no of visitors visited the site can be seen.

Do you prefer a formal greeting or an informal greeting?

>> [Display greeting](#)

click [here](#) to know Total no of visitors visited the site



Hi, how are you?



Previous visitors are..

- 1
- 2
- 3
- 4

You are visitor number = 5

WEB PROGRAMMING LAB

Program 6

Write the XHTML code using JavaScript Object Notation (JSON) to create the form with the following capabilities a) A text widget to collect the users name b) Four check boxes, one each for the following items i) Four 100 watt light bulbs for Rs. 20=39 ii) Eight 100 watt light bulbs for Rs 40=20 iii) Four 100 watt long life light bulbs for Rs. 30=95 iv) Eight 100 watt long life light bulbs for Rs 70=49 c) A collection of 3 radio buttons that are labeled as follows i) Visa ii) Master Card iii) Discover Write a PHP script that computes the total cost of the ordered light bulbs for the above program after adding 13.5% VAT. The program must inform the buyer of exactly what was ordered in table

Html file

```
<html>
  <head>
    <title>Order Form</title>
    <script type="text/javascript" >
      function loadjson()
      {
        var json = '{ "h1": "<b><h2><pre>Select the items :   Quantity</pre></b></h2>" }';
        var obj = JSON.parse(json);
        document.getElementById("heading").innerHTML=obj.h1;
        document.getElementById("heading").innerText=obj.h1;
      }
    </script>
  </head>
  <body onload="loadjson();">
    <form method="POST" action="http://localhost/p6.php">
      User :
      <input type="text" name="mname" size=30 /> <br/>
      <label id="heading" ></label>

      <table>
        <TR>
          <TD>
            <input type="checkbox" name="option1" checked="checked"/>
            <label id="chk1">Four 100 watt bulbs for Rs. 20.39 </label>
          </TD>
          <TD>
            <input type="text" name="VAL1" size=2 />
          </TD>
        </TR>
        <TR>
          <TD>
            <input type="checkbox" name="option2" />
            <label id="chk2">Eight 100watt bulbs for Rs 40.20 </label></TD>
          </TD>
        </TR>
      </table>
    </form>
  </body>
</html>
```

WEB PROGRAMMING LAB

```
<TD>
<input type="text" name="VAL2" size=2/>
</TD>
</TR>
<TR>
<TD>
<input type="checkbox" name="option3" />
<label id="chk3">Four 100watt long life bulbs for Rs. 30.95 </label>
</TD>
<TD>
<input type="text" name="VAL3" size=2/>
</TD>
</TR>

<TR>
<TD>
<input type="checkbox" name="option4" />
<label id="chk4">Eight 100watt long life bulbs for Rs 70.49 </label><br/>
</TD>
<TD>
<input type="text" name="VAL4" size=2/>
</TD>
</TR>

</table>
<input type="radio" name="paymode" value="visa" checked="checked" /> VISA <br/>
<input type="radio" name="paymode" value="mcard"/> MASTER CARD <br/>
<input type="radio" name="paymode" value="discover"/> DISCOVER <br/>

<input type="submit" id="bt" value="submit"/>
<input type="reset" value="Reset Order" />
</form>
</body>
</html>
```

Save above file as .html file in any folder. Also download and save json2.js file in the same folder location.

p6.php

```
<html>
<head>Display Form</head>
<body>
<?php
    $name=$_POST["mname"];
    $mode=$_POST["paymode"];
    $item1=0;
    $item2=0;
    $item3=0;
    $item4=0;
    $price1=20.39;
    $price2=30.95;
    $price3=40.20;
```

WEB PROGRAMMING LAB

```
$price4=70.49;
if(isset($_POST['option1']))
    $item1=$_POST['VAL1'];
if(isset($_POST['option2']))
    $item2=$_POST['VAL2'];
if(isset($_POST['option3']))
    $item3=$_POST['VAL3'];
if(isset($_POST['option4']))
    $item4=$_POST['VAL4'];

$total1=$item1*$price1;
$total2=$item2*$price2;
$total3=$item3*$price3;
$total4=$item4*$price4;

$total=$total1+$total2+$total3+$total4;
$total+=$(total*13.5)/100;

print("</br> User Name:$name");
?>

<h3> You have ordered following items</h3>

<table border=1>
<tr><th>Item</th><th>Qty</th><th>Price</th><th>Total</th></tr>
<tr><td>Four 100 watt bulbs for Rs. 20.39</td>
<td><?php print("$item1");?></td><td><?php print("$price1");?></td>
<td><?php print("$total1");?></td></tr>

<tr><td>Eight 100watt bulbs for Rs 40.20</td>
<td><?php print("$item2");?></td><td><?php print("$price2");?></td><td><?php
print("$total2");?></td></tr>

<tr><td>Four 100watt long life bulbs for Rs. 30.95</td><td><?php print("$item3");?></td><td><?php
print("$price3");?></td><td><?php print("$total3");?></td></tr>

<tr><td>Eight 100watt long life bulbs for Rs 70.49</td><td><?php print("$item4");?></td><td><?php
print("$price4");?></td><td><?php print("$total4");?></td></tr>

</table>
</br>
</br>
<?php print("Total bill including 13.5% tax:<b> $total </b>");?>
<?php print("payment mode:<b> $mode </b>");?>
</body>
</html>
```

Save above file as p6.php and store in htdocs folder of the xampp(eg: C:\xampp\htdocs). Start apache. Open html file in browser to order the items. On submit of the form one can view ordered items and total bill generated including 13.5% tax.

WEB PROGRAMMING LAB

User :

Select the items : Quantity

- ☒ Four 100 watt bulbs for Rs. 20.39
- ☒ Eight 100watt bulbs for Rs 40.20
- ☐ Four 100watt long life bulbs for Rs. 30.95
- ☐ Eight 100watt long life bulbs for Rs 70.49
- ☒ VISA
- ☐ MASTER CARD
- ☐ DISCOVER

Firefox

http://localhost/p6.php

localhost/p6.php

Display Form

User Name:rani

You have ordered following items

Item	Qty	Price	Total
Four 100 watt bulbs for Rs. 20.39	2	20.39	40.78
Eight 100watt bulbs for Rs 40.20	1	30.95	30.95
Four 100watt long life bulbs for Rs. 30.95	0	40.2	0
Eight 100watt long life bulbs for Rs 70.49	0	70.49	0

Total bill including 13.5% tax: **81.41355** payment mode: **visa**

WEB PROGRAMMING LAB

Program 7

Write a XHTML code to provide a form that collects names and telephone numbers. The phone numbers must be in the format ddd-ddd-dddd. Write a PHP script that checks the submitted telephone number to be sure that it confirms to the required format and then returns a response that indicates whether the number was correct.

p7.html

```
<html>
  <head>
    <title> Phone Form </title>
  </head>
  <body>
    <form method="POST" action="http://localhost/p7.php">
      Name :
      <input type="text" name="uname" size=33 /> <br/>
      Telephone Number :
      <input type="text" name="phone" size=20 />(ddd-ddd-dddd) <br/>

      <input type="submit" value="Submit Form" />
      <input type="reset" value="Clear Form" />
    </form>
  </body>
</html>
```

p7.php file

```
<?php
$name = $_POST["uname"];
$pnum = $_POST["phone"];
if(preg_match("/^([0-9]{3})-([0-9]{3})-([0-9]{4})$/", $pnum))
{
    print "Phone number is valid <br/>";
    print "User name is : $name <br/>";
    print "Phone number is : $pnum <br/>";
}
else
    print "Phone number is not valid!";
?>
```

Save above file as p7.php in htdocs of xampp folder(eg: C:\xampp\htdocs\p7.php)

Start apache from xampp control panel.

Open html in browser. Enter details in html and submit. It will validate the date format as below.

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Name :

Telephone Number : × (ddd-ddd-dddd)



Phone number is valid
User name is : saa
Phone number is : 333-555-5555



Phone number is not valid!

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Program 8

Write the XHTML code using JavaScript Object Notation (JSON) to accept from the user name, phone no, mail-id, stored in database. Retrieve same information from database using a separate PHP script.

HTML File

```
<!DOCTYPE html>
<html>
<body>

<head>
<script type="text/javascript">
function save()
{
    uname=document.getElementById("uname").value;
    phone=document.getElementById("uphone").value;
    email=document.getElementById("email").value;

    var myObj = { "name" : ""+ uname + "", "phone":"" + phone + "", "email" : "" + email + "" };
    myJSON = JSON.stringify(myObj);
    window.location = "http://localhost/p8.php?x=" + myJSON;
}

</script>
</head>
<form>
<h3> Student Information </h3>
    <h3> Name : <input type="text" id="uname" /> </h3>
    <h3> Phone : <input type="text" id="uphone" /> </h3>
    <h3> Email : <input type="text" id="email" /> </h3>

    <input type="button" id="bt" value="submit" onclick="save();" />

</form>
</body>
</html>
```

Save above file as .html file in any folder.

p8.php file

```
<?php

$data = $_GET['x'];
$data_decode = json_decode($data);

$name = $data_decode->name;
$phone=$data_decode->phone;
```

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```
$email= $data_decode->email;
echo "<br/> <h4> Information Entered </h4>";
echo "-----<br/>";
print "Name : ".$name."<br/>";
print "Phone : ".$phone."<br/>";
print "Email : ".$email."<br/>";
echo "-----<br/>";

// Create connection
$link = mysqli_connect("localhost", "root", "", "test");
// Check connection
if (!$link)
{
    die("Connection failed: " . mysqli_connect_error());
}
mysqli_select_db($link, "test");
$query1 = "CREATE TABLE tb_text_book(uname varchar(15), phone varchar(30), email char(30))";

$result = mysqli_query($link,$query1);
if($result)
    echo "(2) Query1 executed... <br/>";
else
    echo "(2) Table not created : ".mysqli_error($link)."<br/>";

$query2 = "INSERT INTO tb_text_book VALUES('$name', '$phone', '$email')";
$res2 = mysqli_query($link,$query2);
if($res2)
    echo "(3) Values inserted in the table ... <br/>";
else
    echo "(3) Query2 not executed: ".mysqli_error($link)."<br/>";

$query3 = "SELECT * FROM tb_text_book";
$res3 = mysqli_query($link,$query3);
echo "<br/> <h3> Table Contents Are </h3>";

print "<b> name | phone | email </b> <br/>";
$no =0;
while($row = mysqli_fetch_array($res3))
{
    print "-----<br/>";
    $no += 1;
    print "$no ) ".$row['uname']." | ";
    print $row['phone']." | ";
    print $row['email']." | ";
    print "<br/>";
}

mysqli_close($link);
?>
```

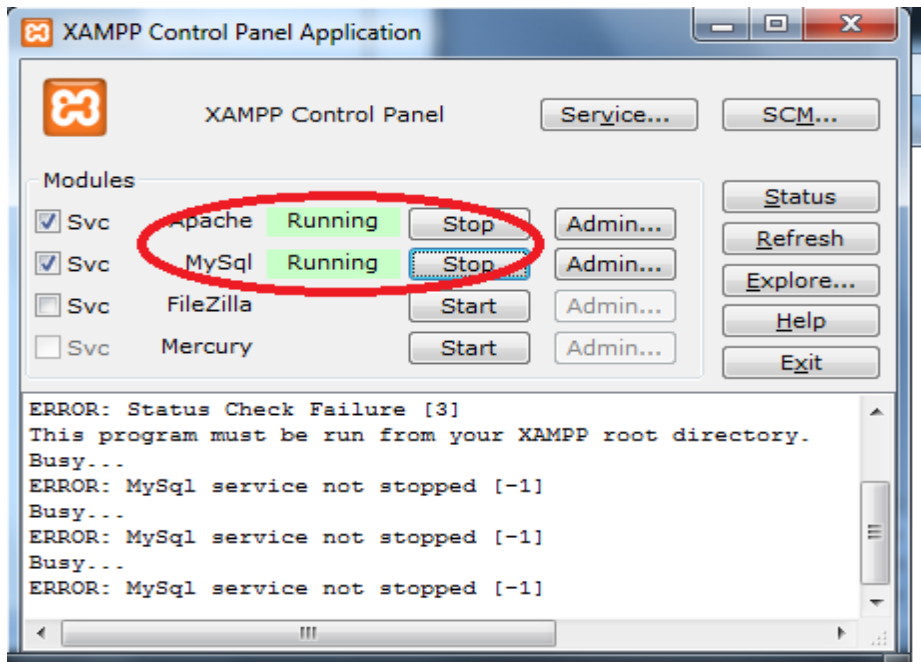

WEB PROGRAMMING LAB

Save above file as p8.php in htdocs of xampp folder(eg: C:\xampp\htdocs\p8.php).

Download and save json2.js file in the same folder location.

Start apache and mysql from XAMPP control panel.

Open html in browser. Enter details in html and submit.

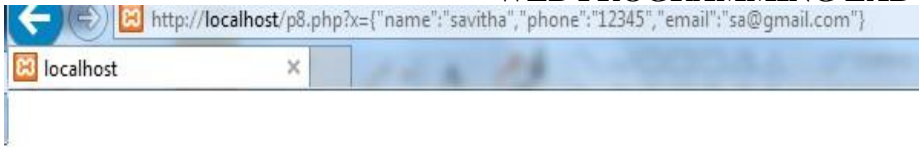


Student Information

Name :

Phone :

Email :



Information Entered

Name : savitha
Phone : 12345
Email : sa@gmail.com

(2) Query1 executed...
(3) Values inserted in the table ...

Table Contents Are

name | phone | email

1) savitha | 12345 | sa@gmail.com |

PART B

For running Part B programs below software's need to be installed Install jdk 6 or 7 and the NetBeans IDE 7.0.1 if OS is windows XP OR
Install jdk 7 and the NetBeans IDE 8.2 if OS is windows 7

Program 9

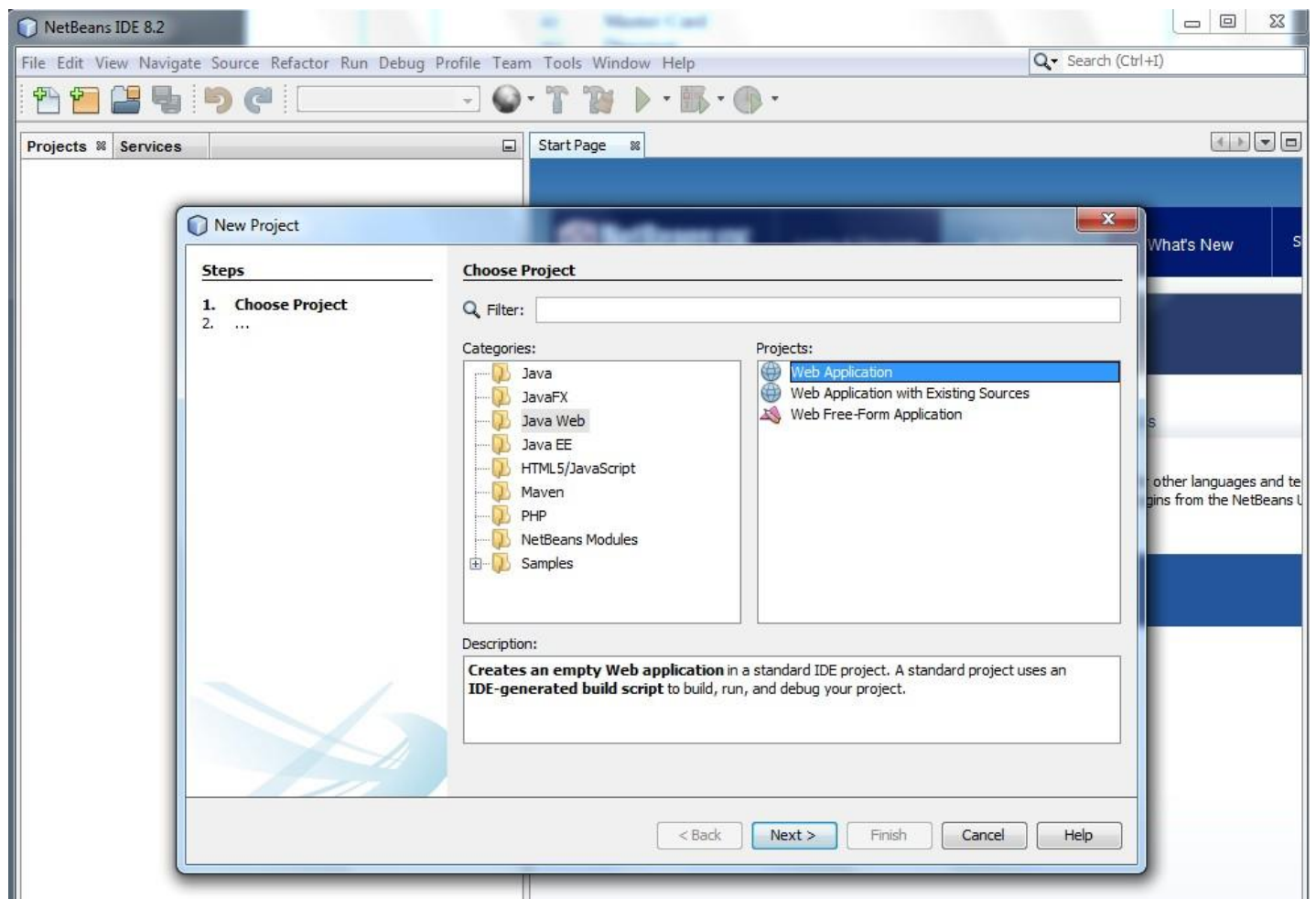
Write a servlet that returns a randomly chosen greeting from a list of five different greetings. The greeting must be stored as constant strings in the program.

Follow below steps to create a servlet

File □ New Project

Select Java Web from Categories Select Web

Application from Projects



WEB PROGRAMMING LAB

Give project name and location of the application

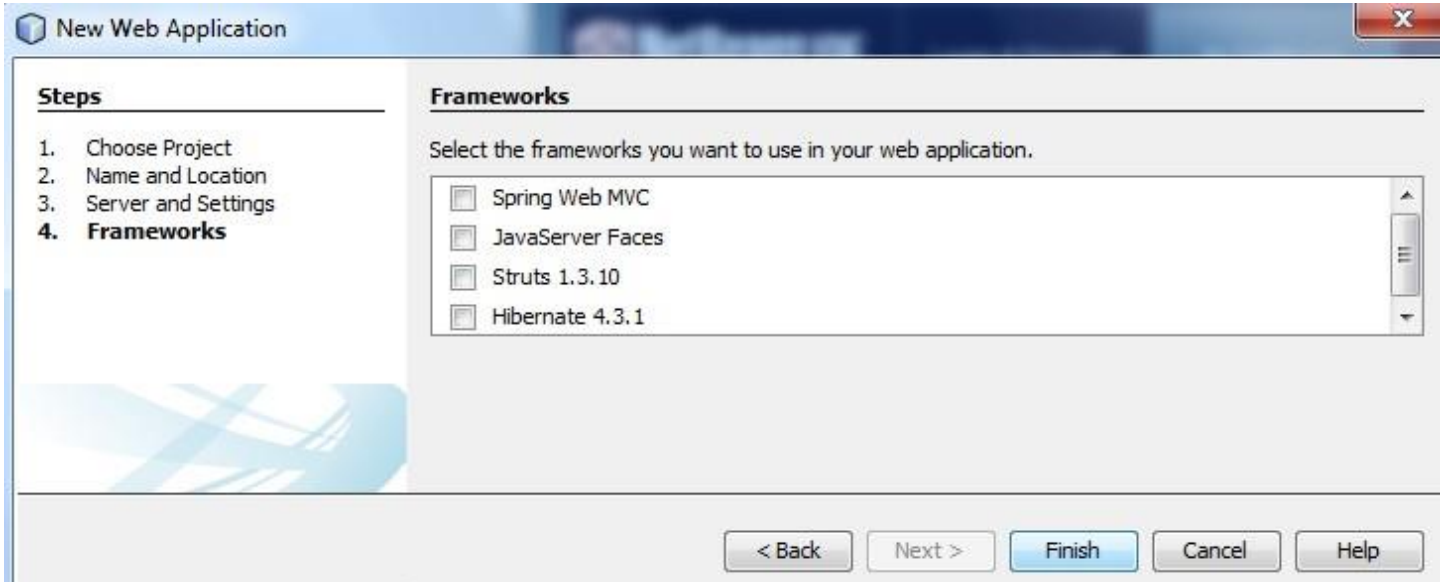
The screenshot shows the 'New Web Application' wizard in the 'Name and Location' step. On the left, a 'Steps' list shows: 1. Choose Project, 2. **Name and Location**, 3. Server and Settings, 4. Frameworks. The main area contains fields for 'Project Name' (RandomGreeting), 'Project Location' (D:\BEANS\), and 'Project Folder' (D:\BEANS\RandomGreeting). There are 'Browse...' buttons for both location and folder. A checkbox 'Use Dedicated Folder for Storing Libraries' is unchecked. Below it is a 'Libraries Folder' field with a 'Browse...' button. A note states: 'Different users and projects can share the same compilation libraries (see Help for details)'. At the bottom are buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

Select Server as Glassfish or apache Tomcat

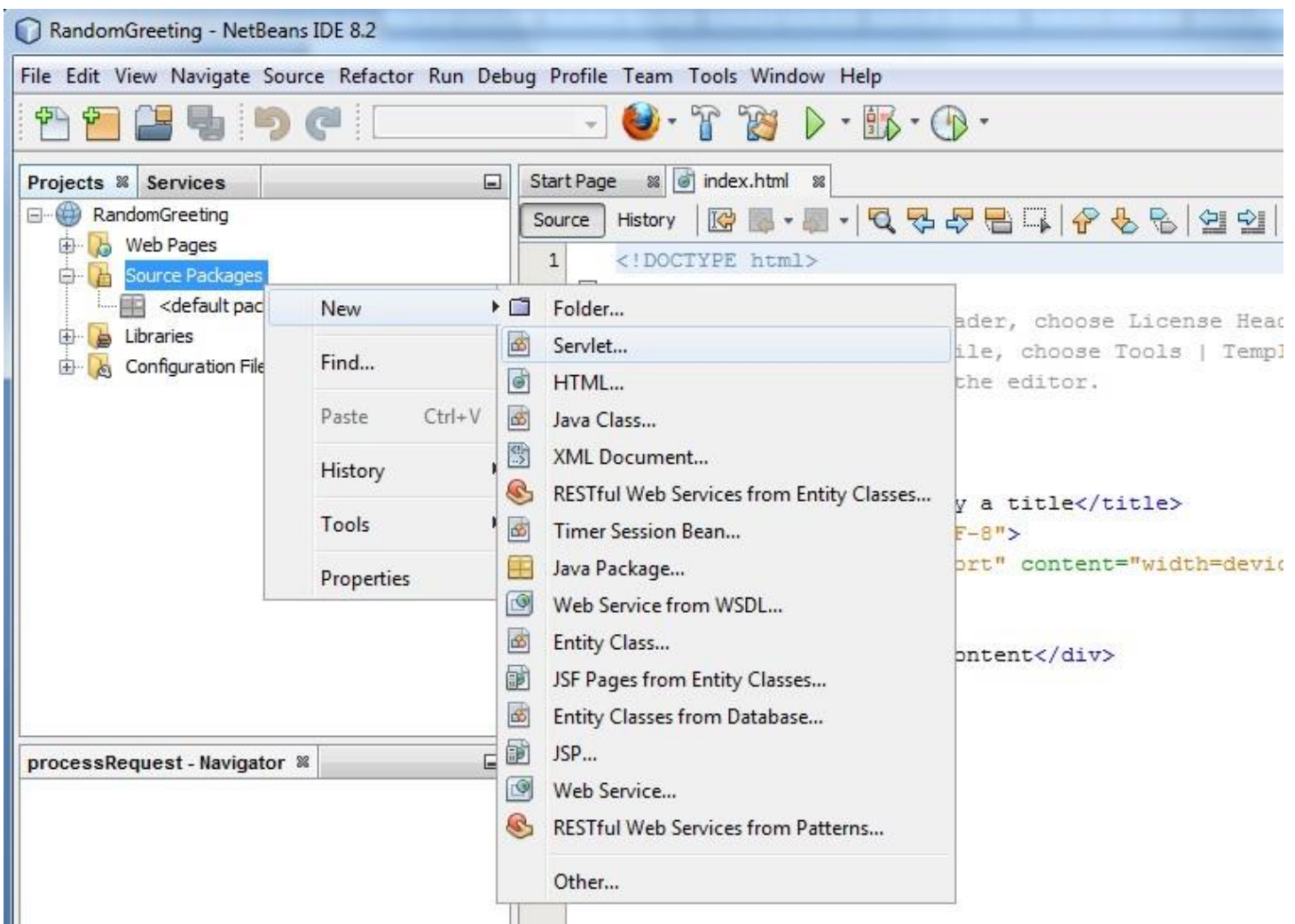
The screenshot shows the 'New Web Application' wizard in the 'Server and Settings' step. The 'Steps' list on the left is: 1. Choose Project, 2. Name and Location, 3. **Server and Settings**, 4. Frameworks. The main area has 'Add to Enterprise Application' set to '<None>'. The 'Server' dropdown is highlighted with a red oval and shows 'GlassFish Server 4.1.1'. There is an 'Add...' button next to it. 'Java EE Version' is set to 'Java EE 7 Web'. 'Context Path' is '/RandomGreeting'. At the bottom are buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

Click on next and then Finish.

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To create servlet Click on Source Packages ▢ New ▢ Servlet



Specify class name for servlet

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The screenshot shows the 'New Servlet' dialog box with the 'Name and Location' tab selected. The 'Steps' list on the left indicates the current step is '2. Name and Location'. The 'Class Name' field contains 'p9'. The 'Project' field contains 'RandomGreeting'. The 'Location' dropdown is set to 'Source Packages'. The 'Package' dropdown is empty. The 'Created File' field shows the path 'D:\BEANS\RandomGreeting\src\java\p9.java'. A warning message at the bottom states: 'Warning: It is highly recommended that you do not place Java classes in the default package.' Navigation buttons at the bottom include '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

Steps

1. Choose File Type
- 2. Name and Location**
3. Configure Servlet Deployment

Name and Location

Class Name: p9

Project: RandomGreeting

Location: Source Packages

Package:

Created File: D:\BEANS\RandomGreeting\src\java\p9.java

Warning: It is highly recommended that you do not place Java classes in the default package.

< Back Next > Finish Cancel Help

Select the checkbox “Add information to deployment descriptor (web.xml)”

The screenshot shows the 'New Servlet' dialog box with the 'Configure Servlet Deployment' tab selected. The 'Steps' list on the left indicates the current step is '3. Configure Servlet Deployment'. The checkbox 'Add information to deployment descriptor (web.xml)' is checked and circled in red. The 'Class Name' field contains 'p9'. The 'Servlet Name' field contains 'p9'. The 'URL Pattern(s)' field contains '/p9'. The 'Initialization Parameters' section is empty. Navigation buttons at the bottom include '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

Steps

1. Choose File Type
2. Name and Location
- 3. Configure Servlet Deployment**

Configure Servlet Deployment

Register the Servlet with the application by giving the Servlet an internal name (Servlet Name). Then specify patterns that identify the URLs that invoke the Servlet. Separate multiple patterns with commas.

☒ Add information to deployment descriptor (web.xml)

Class Name: p9

Servlet Name: p9

URL Pattern(s): /p9

Initialization Parameters:

Name	Value
------	-------

New Edit... Delete

< Back Next > Finish Cancel Help

Click on finish.

Write below code for servlet to generate random greeting. p9.java file

```
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class p9 extends HttpServlet
{
    public void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException
    {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        String[] myStrings = {"This is the first servlet message", "This is the first servlet message",
        "Good Morning", "Have a nice day", "Hello"};
        out.println("<html>");
        out.println("<head>");
        out.println("<title>Servlet Random Message</title>");
        out.println("</head>");
        out.println("<body>");
        out.println("<h1>Servlet RandomMessage</h1>");

        Random r = new Random( );
        out.println(myStrings[r.nextInt(myStrings.length)]);
        out.println("</body>");
        out.println("</html>");
    }
}
```

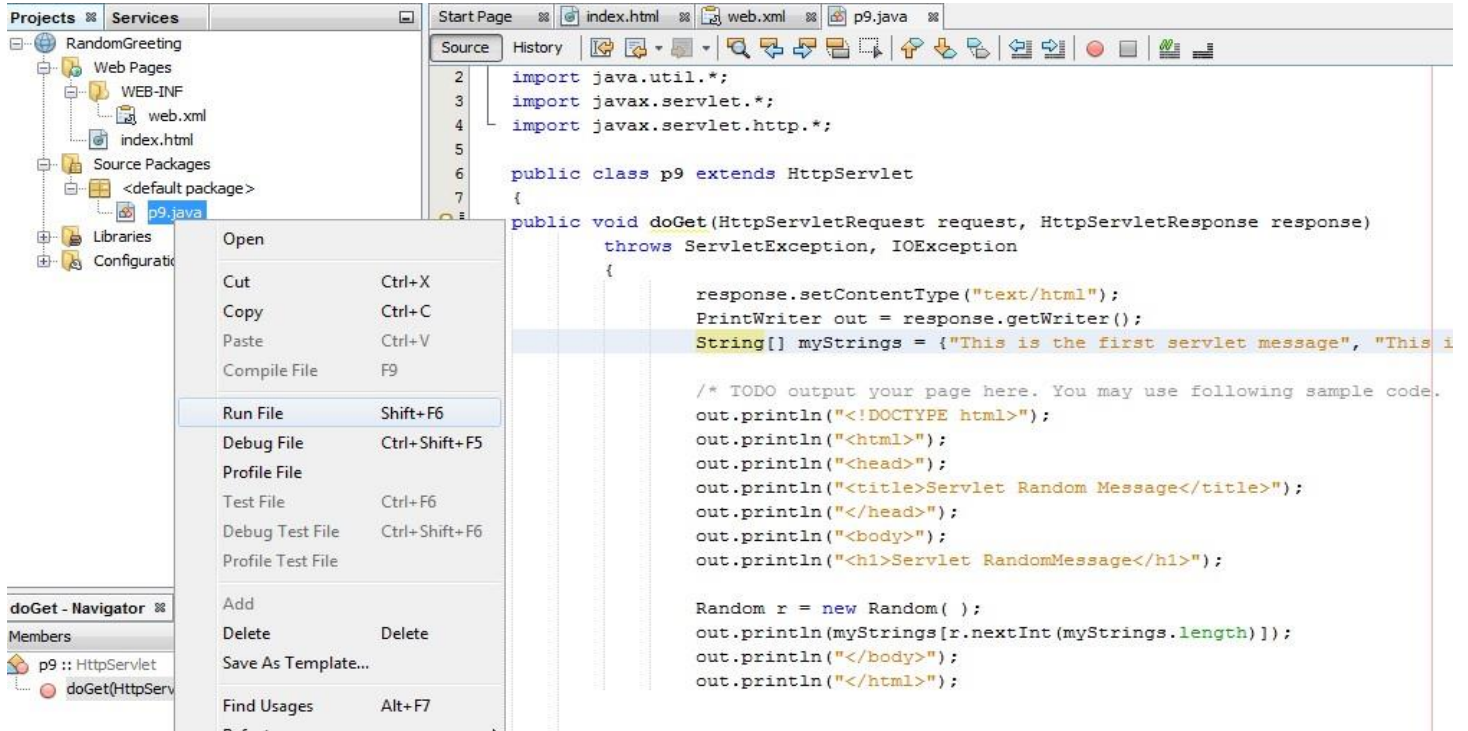
Then right click on servlet file select Run File to run the servlet OR Run application and pass servlet name as below

[**http://localhost:8080/Applicationname/servletclass\(eg:p9\)**](http://localhost:8080/Applicationname/servletclass(eg:p9))

Port no changes based on the server selected while creating application

Eg: [http://localhost:8080/RandomGreetings/p9**](http://localhost:8080/RandomGreetings/p9)**

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Output



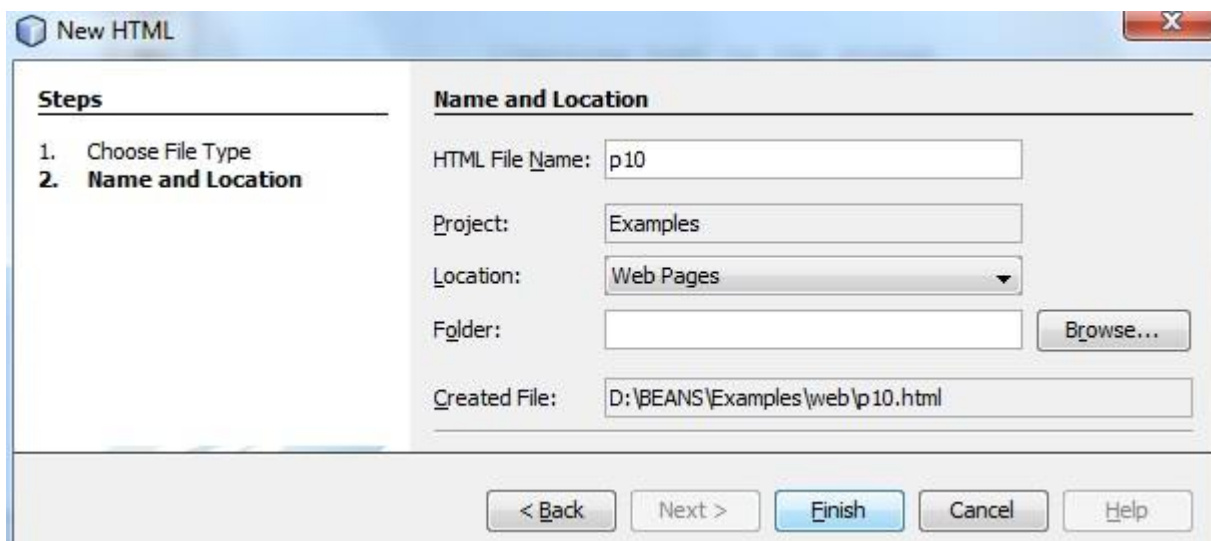
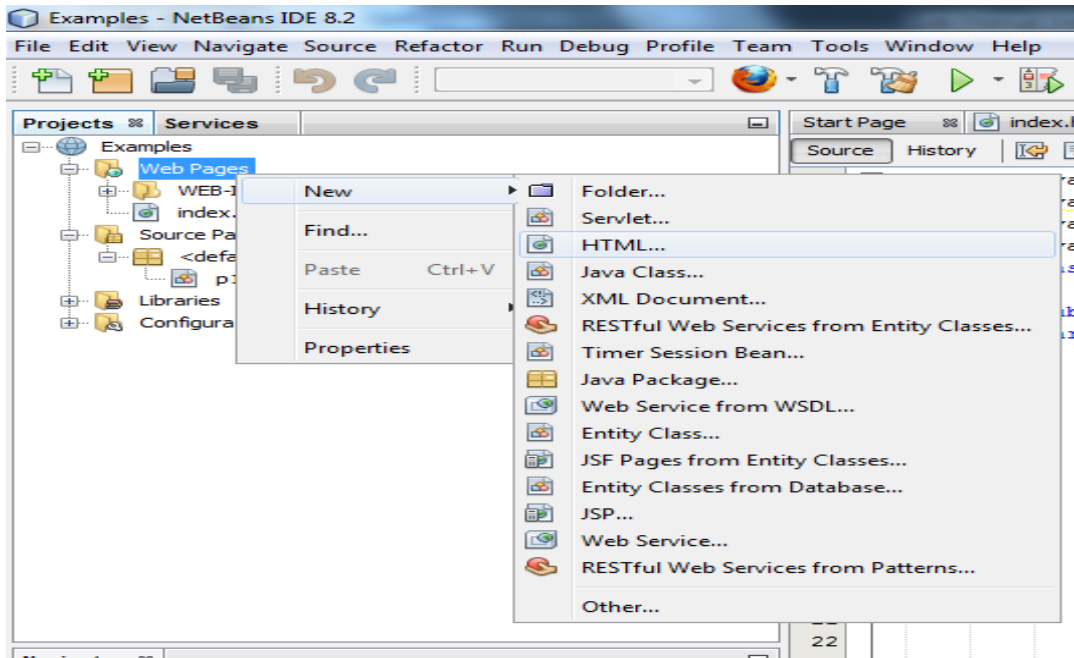


WEB PROGRAMMING LAB

Program 10

A servlet for the XHTML code of exercise 6 that computes the total cost of ordered light bulbs after adding 2% sales tax. The servlet must inform the buyer of exactly what was ordered in table

Create web application (in below example **Examples** web application is created) Create html file as below



Click on finish

HTML File

```

<html>
  <head>
    <title>Order Form</title>
    <script type="text/javascript">
      function loadjson()
      {
        var json = '{ "h1": "<b><h2><pre>Select the items :   Quantity</pre></b></h2>" }';
        var obj = JSON.parse(json);
        document.getElementById("heading").innerHTML=obj.h1;
        document.getElementById("heading").innerText=obj.h1;
      }
    </script>
  </head>
  <body onload="loadjson();">
    <form method="GET" action="http://localhost:8080/Examples/p10">
      User :
      <input type="text" name="mname" size=30 /> <br/>
      <label id="heading" ></label>

      <table>
      <TR>
      <TD>
        <input type="checkbox" name="option1" checked="checked"/>
        <label id="chk1">Four 100 watt bulbs for Rs. 20.39 </label>
      </TD>
      <TD>
        <input type="text" name="VAL1" size=2 />
      </TD>
      </TR>
      <TR><TD>
        <input type="checkbox" name="option2" />
        <label id="chk2">Eight 100watt bulbs for Rs 40.20 </label></TD>
      <TD>
        <input type="text" name="VAL2" size=2/>
      </TD>
      </TR>
      <TR><TD>
        <input type="checkbox" name="option3" />
        <label id="chk3">Four 100watt long life bulbs for Rs. 30.95 </label>
      </TD>
      <TD>
        <input type="text" name="VAL3" size=2/>
      </TD>
      </TR>
      <TR><TD>
        <input type="checkbox" name="option4" />
        <label id="chk4">Eight 100watt long life bulbs for Rs 70.49 </label><br/>

```

WEB PROGRAMMING LAB

</TD>

<TD>

<input type="text" name="VAL4" size=2/>

</TD>

</TR>

</table>

<input type="radio" name="paymode" value="visa" checked="checked" /> VISA

<input type="radio" name="paymode" value="mcard"/> MASTER CARD

<input type="radio" name="paymode" value="discover"/> DISCOVER

<input type="submit" id="bt" value="submit"/>

<input type="reset" value="Reset Order" />

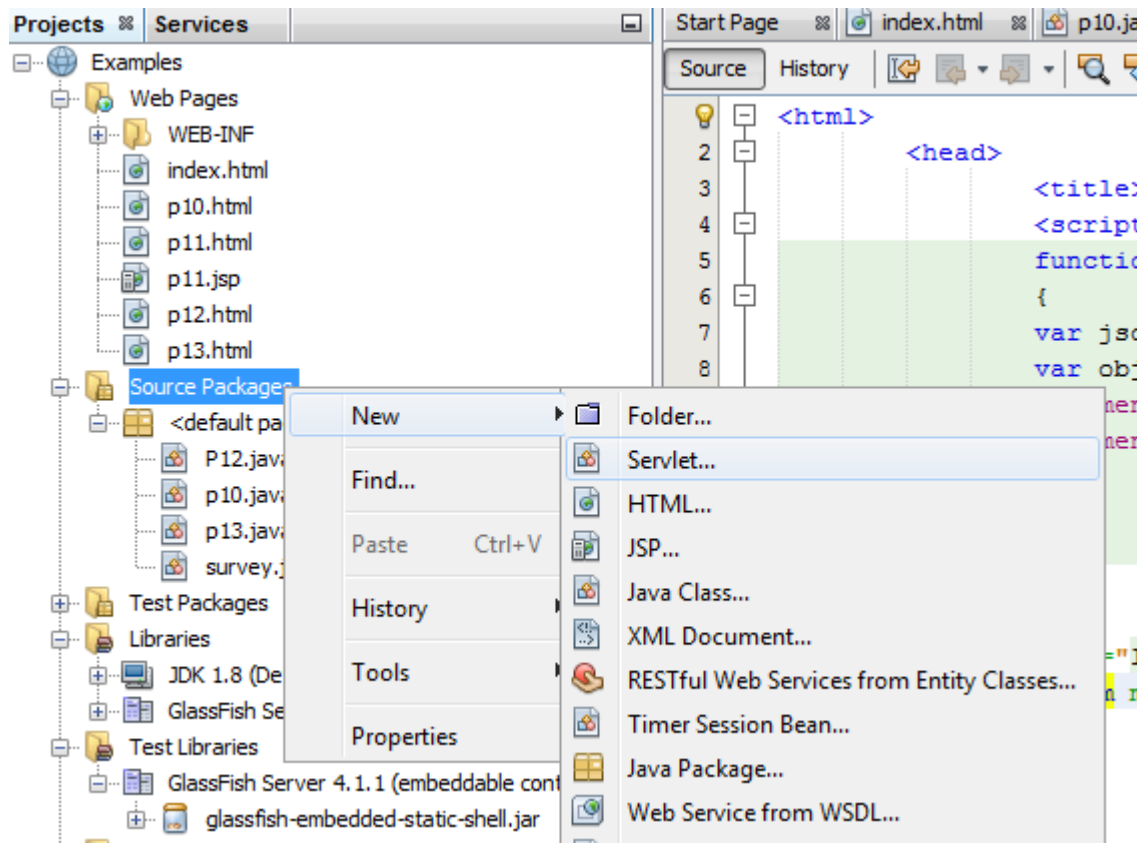
</form>

</body>

</html>

Change port number in action attribute based on server selected

Create servlet as below



p10.java file

```
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class p10 extends HttpServlet
{
    public void doGet(HttpServletRequest req, HttpServletResponse res)
    throws ServletException, IOException
    {
        res.setContentType("text/html");//setting the content type
        PrintWriter pw=res.getWriter();//get the stream to write the data

        String UName=req.getParameter("mname");
        double item1,item2,item3,item4;
        double price1=20.39;
        double price2=40.20;
        double price3=30.95;
        double price4=70.49;
        item1=item2=item3=item4=0;
        if(req.getParameter("option1")!=null)
        {
            String str1=req.getParameter("VAL1");
            item1=Integer.parseInt(str1);
        }
        if(req.getParameter("option2")!=null)
        {
            String str2=req.getParameter("VAL2");
            item2=Integer.parseInt(str2);
        }
        if(req.getParameter("option3")!=null)
        {
            String str3=req.getParameter("VAL3");
            item3=Integer.parseInt(str3);
        }
        if(req.getParameter("option4")!=null)
        {
            String str4=req.getParameter("VAL4");
            item4=Integer.parseInt(str4);
        }
        double total1=item1*price1;
        double total2=item2*price2;
        double total3=item3*price3;
        double total4=item4*price4;
        double total=total1+total2+total3+total4;

        total+=(total*2.0)/100;
        pw.println("<!DOCTYPE html>");
        pw.println("<html>");
    }
}
```

WEB PROGRAMMING LAB

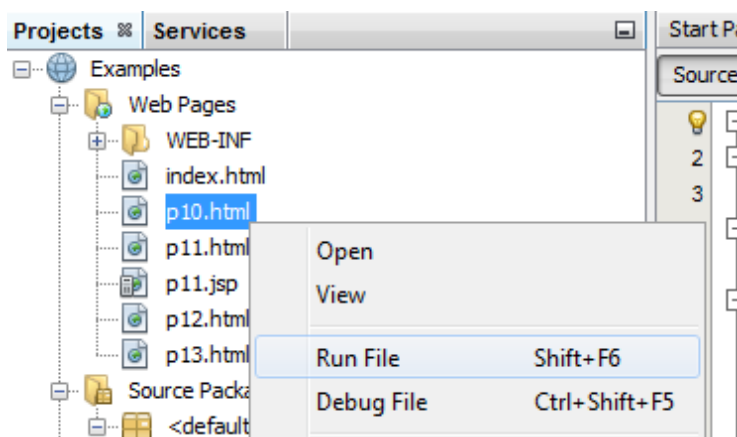
```
pw.println("<body>");
pw.println("<h4>user name: " + UName + "</h4>");

String itemname1,itemname2,itemname3,itemname4;
itemname1="Four 100 watt bulbs for Rs. 20.39";
itemname2="Eight 100watt bulbs for Rs 40.20";
itemname3="Four 100watt long life bulbs for Rs. 30.95";
itemname4="Eight 100watt long life bulbs for Rs 70.49";

//writing html in the stream
pw.println("You have ordered following items");
pw.println("<table border=1>");
pw.println("<tr><th>Item</th><th>Qty</th><th>Price</th><th>Total</th></tr>");
pw.println("<tr><td>" + itemname1 + "</td><td>" + item1 + "</td><td>" + price1
+ "</td><td>" + total1 + "</td></tr>");
pw.println("<tr><td>" + itemname2 + "</td><td>" + item2 + "</td><td>" + price2
+ "</td><td>" + total2 + "</td></tr>");
pw.println("<tr><td>" + itemname3 + "</td><td>" + item3 + "</td><td>" + price3
+ "</td><td>" + total3 + "</td></tr>");
pw.println("<tr><td>" + itemname4 + "</td><td>" + item4 + "</td><td>" + price4
+ "</td><td>" + total4 + "</td></tr>");
pw.println("</table>");
pw.println("Total bill after adding 2% tax is: " + total);
pw.println("</body></html>");

pw.close();//closing the stream
}
}
```

Run html file as below



WEB PROGRAMMING LAB

localhost:8080/Examples/p10.html

User :

Select the items : Quantity

☒ Four 100 watt bulbs for Rs. 20.39

☒ Eight 100watt bulbs for Rs 40.20

☐ Four 100watt long life bulbs for Rs. 30.95

☐ Eight 100watt long life bulbs for Rs 70.49

☒ VISA

☐ MASTER CARD

☐ DISCOVER

On submit Total bill including 2% tax will be generated

localhost:8080/Examples/p10?mname=Rani&option1=on&VAL1=2&option2=on&

user name: Rani

You have ordered following items

Item	Qty	Price	Total
Four 100 watt bulbs for Rs. 20.39	2	20.39	40.78
Eight 100watt bulbs for Rs 40.20	1	40.2	40.2
Four 100watt long life bulbs for Rs. 30.95	0	30.95	0.0
Eight 100watt long life bulbs for Rs 70.49	0	70.49	0.0

Total bill after adding 2% tax is: 82.59960000000001

WEB PROGRAMMING LAB
Program 11

Write and test a JSP document that displays the form of exercise 6 and produces the same response document as exercise 10.

p11.html

```
<html
>   <head
      >       <title>Order Form</title>
              <script
                type="text/javascript">
                function loadjson()
                {
                var json = '{ "h1": "<b><h2><pre>Select the items :
                                                                    Quantity</pre></b></h2>"
                }; var obj = JSON.parse(json);
                document.getElementById("heading").innerHTML=obj.h1;
                document.getElementById("heading").innerText=obj.h1;
                }

</script>
</head>
<body onload="loadjson();">
    <form method="GET"
        action="http://localhost:8080/Examples/p11.jsp"> User :
        <input type="text" name="mname" size=30 /> <br/>
        <label id="heading" ></label>

        <table>
        <TR>
        <TD>
        <input type="checkbox" name="option1" checked="checked"/>
        <label id="chk1">Four 100 watt bulbs for Rs. 20.39 </label>
        </TD>
        <TD>
        <input type="text" name="VAL1" size=2 />
        </TD>
        </TR>
        <TR><TD>
        <input type="checkbox" name="option2" />
        <label id="chk2">Eight 100watt bulbs for Rs 40.20 </label></TD>
        <TD>
        <input type="text" name="VAL2" size=2 />
        </TD>
        </TR>
        <TR><TD>
        <input type="checkbox" name="option3" />
        <label id="chk3">Four 100watt long life bulbs for Rs. 30.95 </label>
        </TD>
        <TD>
        <input type="text" name="VAL3" size=2 />
        </TD>
        </TR>
```


WEB PROGRAMMING LAB

</TR>

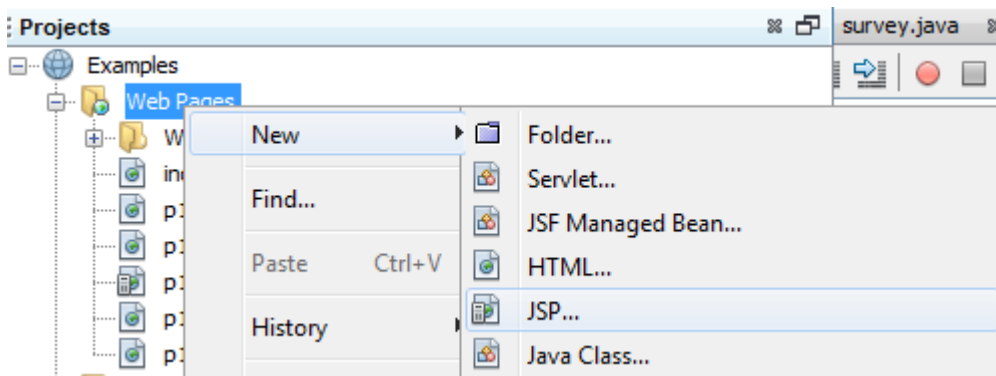
WEB PROGRAMMING LAB

```
<TR>
<TD>
<input type="checkbox" name="option4" />
<label id="chk4">Eight 100watt long life bulbs for Rs 70.49 </label><br/>
</TD>
<TD>
<input type="text" name="VAL4" size=2 />
</TD>
</TR>

</table>
<input type="radio" name="paymode" value="visa" checked="checked" /> VISA <br/>
<input type="radio" name="paymode" value="mcard"/> MASTER CARD <br/>
<input type="radio" name="paymode" value="discover"/> DISCOVER <br/>

<input type="submit" id="bt" value="submit"/>
<input type="reset" value="Reset Order" />
</form>
</body>
</html>
```

Create jsp file and write the below code



p11.jsp

```
<% @ page language="java" contentType="text/html"%>
<html>
<body>
User Name:<%=request.getParameter("mname")%><br/>
<%
int item1,item2,item3,item4;
double price1=20.39;
double price2=40.20;
double price3=30.95;
double price4=70.49;
item1=item2=item3=item4=0;
if(request.getParameter("option1")!=null)
{
    String str1=request.getParameter("VAL1");
    item1=Integer.parseInt(str1);
}
}
```

WEB PROGRAMMING LAB

```
if(request.getParameter("option2")!=null)
{
    String str2=request.getParameter("VAL2");
    item2=Integer.parseInt(str2);
}
if(request.getParameter("option3")!=null)
{
    String str3=request.getParameter("VAL3");
    item3=Integer.parseInt(str3);
}
if(request.getParameter("option4")!=null)
{
    String str4=request.getParameter("VAL4");
    item4=Integer.parseInt(str4);
}
double total1=item1*price1;
double total2=item2*price2;
double total3=item3*price3;
double total4=item4*price4;
double total=total1+total2+total3+total4;
total+=(total*2.0)/100;

String itemname1,itemname2,itemname3,itemname4;
    itemname1="Four 100 watt bulbs for Rs. 20.39";
    itemname2="Eight 100watt bulbs for Rs 40.20";
    itemname3="Four 100watt long life bulbs for Rs. 30.95";
    itemname4="Eight 100watt long life bulbs for Rs 70.49";

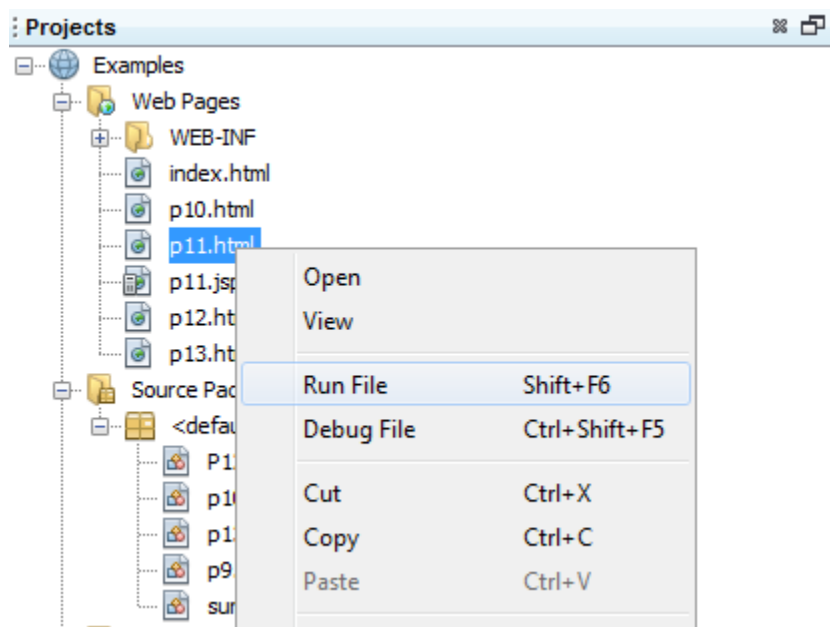
%>

<h3>You have ordered following items</h3><br>
<table border=1>
<tr>
    <th>Item</th>
    <th>Qty</th>
    <th>Price</th>
    <th>Total</th>
</tr>
<tr>
    <td><%=itemname1%></td>
    <td><%=item1%></td>
    <td><%=price1%></td>
    <td><%=total1%></td>
</tr>
<tr>
    <td><%=itemname2%></td>
    <td><%=item2%></td>
    <td><%=price2%></td>
    <td><%=total2%></td>
</tr>
<tr>
    <td><%=itemname3%></td>
    <td><%=item3%></td>
```

WEB PROGRAMMING LAB

```
<td><%=price3%></td>
<td><%=total3%></td>
</tr>
<tr>
<td><%=itemname4%></td>
<td><%=item4%></td>
<td><%=price4%>
</td><td><%=total4%></td>
</tr>
</table>
Total bill including 2% tax is <b> <%=total%> </b>
<br/>
</body>
</html>
```

Run HTML file



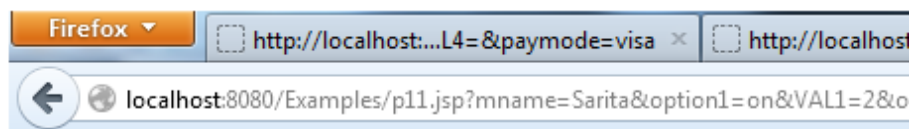
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User :

Select the items : Quantity

<input checked="" type="checkbox"/> Four 100 watt bulbs for Rs. 20.39	<input type="text" value="2"/>
<input checked="" type="checkbox"/> Eight 100watt bulbs for Rs 40.20	<input type="text" value="1"/>
<input checked="" type="checkbox"/> Four 100watt long life bulbs for Rs. 30.95	<input type="text" value="1"/>
<input checked="" type="checkbox"/> Eight 100watt long life bulbs for Rs 70.49	<input type="text" value="1"/>
<input type="radio"/> VISA	
<input checked="" type="radio"/> MASTER CARD	
<input type="radio"/> DISCOVER	
<input type="button" value="submit"/>	<input type="button" value="Reset Order"/>



User Name:Sarita

You have ordered following items

Item	Quantity	Price	Total
Four 100 watt bulbs for Rs. 20.39	2	20.39	40.78
Eight 100watt bulbs for Rs 40.20	1	40.2	40.2
Four 100watt long life bulbs for Rs. 30.95	1	30.95	30.95
Eight 100watt long life bulbs for Rs 70.49	1	70.49	70.49

Total bill including 2% tax is 186.06840000000003

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Program 12

Write a markup document to create a form that collects favorite popular songs, including the name of the song, the composer and the performing artist or group. This document must call a servlet when the form is submitted and another servlet to request a current list of survey results

Create html file in web pages folder

P12.html

```
<html>
<head>
<title>song form</title>
</head>
<body>
<form method="GET" action="http://localhost:8080/Examples/P12">
    <pre>Song Name   : <input type="text" Name="sname" size=20/></pre>

    <pre>Composer    : <input type="text" Name="cname" size=20/> </pre>

    <pre>Singer      : <input type="text" Name="singer" size=20/></pre>
    Artists : <br/>
    <input type="checkbox" name="fluteman" /> Fluteman<br/>
    <input type="checkbox" name="tabalaman" /> Tabalaman<br/>
    <input type="checkbox" name="violinman" /> Violinman<br/>
    <input type="checkbox" name="supportingsinger" />Supporting Singer<br/><br/>

    <input type="submit" value="submit" />
    <input type="submit" value="clear" />
</form>
</body>
</html>
```

Create servlet P12.java in source packages

```
import java.io.*;
import java.io.FileWriter;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.FileReader;

public class P12 extends HttpServlet{
public void doGet(HttpServletRequest req,HttpServletResponse res) throws ServletException,IOException
{
res.setContentType("text/html");//setting the content type
PrintWriter pw=res.getWriter();//get the stream to write the data

String sname=req.getParameter("sname");
String cname=req.getParameter("cname");
String singer=req.getParameter("singer");
```

```
String artist="";

if(req.getParameter("fluteman")!=null)
{
    artist=" Fluteman";
}
if(req.getParameter("tabalaman")!=null)
{
    artist=artist + " Tabalaman";
}
if(req.getParameter("violinman")!=null)
{
    artist=artist + " Violinman";
}
if(req.getParameter("supportingsinger")!=null)
{
    artist=artist + " Supportingsinger";
}

String filename="d:\\song.txt";
FileWriter fw=new FileWriter(filename,true);
fw.write("\n");

try
{
    fw.write("Song:" + sname + " Composer:" + cname + " Singer:" + singer + " Artist:" + artist);

    fw.close();
}
catch(Exception e)
{
    System.out.println(e);
}

pw.println("<!DOCTYPE html>");
pw.println("<html>");
pw.println("<body>");
pw.println("<h2>Current Survey Result </h2>");
pw.println("<br>Song Name: " + sname + "<br> Composer :"+ cname + "<br> Singer :"+ singer + "<br> Artist: "+ artist);
pw.println("<br><br><a href='http://localhost:8080/Examples/survey'>click here </a> to view previous survey details");

pw.println("</body></html>");

pw.close();//closing the stream
}}
```

Song details are stored in d:\\song.txt.

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Create servlet survey.java file in source packages

```
import java.io.*;
import java.io.PrintWriter;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.FileReader;

public class survey extends HttpServlet{
public void doGet(HttpServletRequest req,HttpServletResponse res) throws ServletException,IOException
{
res.setContentType("text/html");//setting the content type
PrintWriter pw=res.getWriter();//get the stream to write the data

String filename="d:\\song.txt";
pw.println("<!DOCTYPE html>");
pw.println("<html>");
pw.println("<body>");
pw.println("<h2>Previous survey result<h2>");
pw.println("<b>The most popular songs are </b> " );
pw.println("<br />");

BufferedReader br = new BufferedReader(new FileReader(filename));
String line;
pw.println("<table border=.01>");
pw.println("<tr><th><pre><b>Song Name      Composer      Singer      Artist
</b></pre></th></tr>");
while((line = br.readLine())!= null)
{
pw.print("<tr><td>" + line + "</td></tr>");

}
br.close();
pw.println("</table>");
pw.println("</body></html>");

pw.close();//closing the stream
}
}
```

Survey details are read from song.txt in D:\\song.txt

Right click on html file select Run File. It shows the below form

localhost:8080/Examples/p12.html

Song Name :

Composer :

Singer :

Artists :

☒ Fluteman

☒ Tabalaman

☐ Violinman

☐ Supporting Singer

localhost:8080/Examples/P12?sname=Chittu+Chittu&

Current Survey Result

Song Name: Chittu Chittu

Composer :Prakash

Singer :Bhavana

Artist: Fluteman Tabalaman

[click here](#) to view previous survey details

Previous survey result

The most popular songs are

Song Name	Composer	Singer	Artist
Song:Chittu Chittu Composer:Prakash Singer:Bhavana Artist: Fluteman Tabalaman			
Song:Vana vana Composer:Kiran Singer:Rjesh Artist: Fluteman Violinman			

Program 13

Create a simple Java web application using Servlet and JDBC HTML File

Create html file in web pages

```
<html>
  <head>
    <title>Order Form</title>
  </head>
  <body>
    <form action="http://localhost:8080/Examples/p13">

      <h2> Insert Student details </h2>
      User :<input type="text" name="user" size="30" /> <br/><br/>
      Phone :<input type="text" name="phone" size="30" /> <br/><br/>
      Email :<input type="text" name="email" size="30" /> <br/><br/>

      <input type="submit" id="bt" value="Submit"/>
      <input type="reset" value="Reset" />

    </form>
  </body>
</html>
```

Create servlet file p13.java in source packages

```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.io.*;
import java.sql.DatabaseMetaData;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class p13 extends HttpServlet
{

    public String DB_URL = "jdbc:mysql://localhost:3306/test";
    public String USER = "root";
    public String PASS = "";

    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
```

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```
{
    response.setContentType("text/html");
    PrintWriter pw = response.getWriter();

    pw.println("<!DOCTYPE html>");
    pw.println("<html>");
    pw.println("<head>");
    pw.println("<title>SERVLET DJBC CONNECTIVITY </title>");
    pw.println("</head>");
    pw.println("<body>");

    Connection conn = null;
    Statement stmt = null;Statement stmt1 = null;ResultSet rs1=null;

    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        conn = DriverManager.getConnection(DB_URL, USER, PASS);
    }
    catch(ClassNotFoundException e)
    {
        pw.print("class not found");
    }
    catch(SQLException e)
    {
        pw.print("conn failed ");
    }
    catch(Exception e)
    {
        pw.print("error");
    }
    try
    {
        String usr = request.getParameter("user");
        String mail = request.getParameter("email");
        String ph = request.getParameter("phone");

        System.out.println("Creating table in given database...");
        stmt1 = conn.createStatement();
        String sql1 = "CREATE TABLE IF NOT EXISTS tb_book2(uname VARCHAR(255),
        email VARCHAR(255), phone INTEGER)";
        int i1 =stmt1.executeUpdate(sql1);
        String sqli = "insert into tb_book2(uname,email,phone) values('" + usr + "'," + mail + "',"
        + ph + "')";
        stmt = conn.createStatement();
        int i = stmt.executeUpdate(sqli);
        if (i!= 0)
        {
            pw.print("<br />Record inserted successfully<br>");
        }
        else
    }
```

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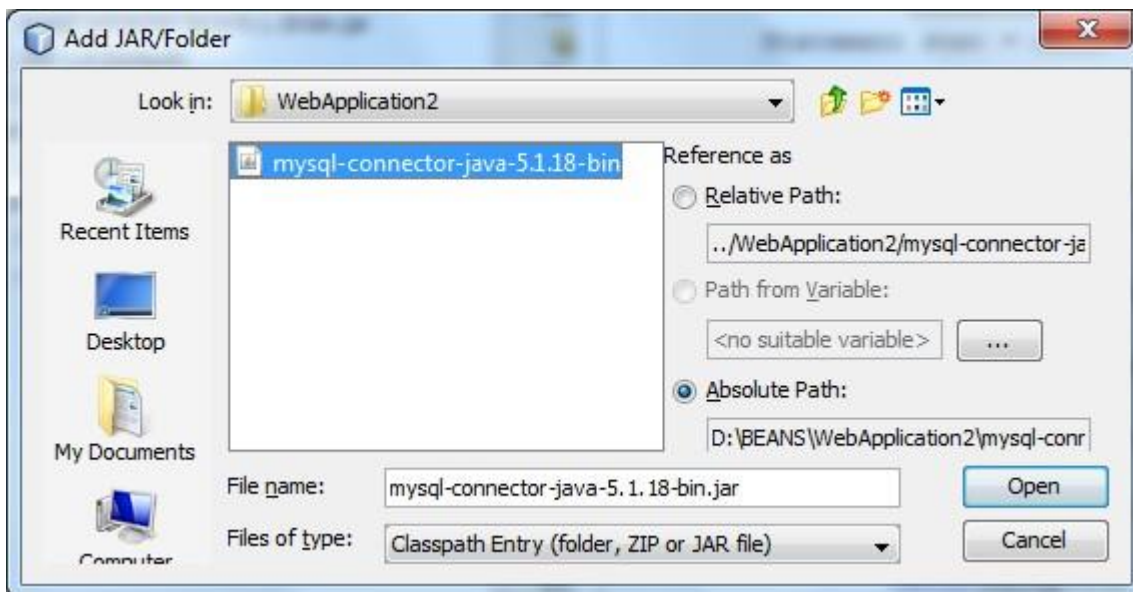
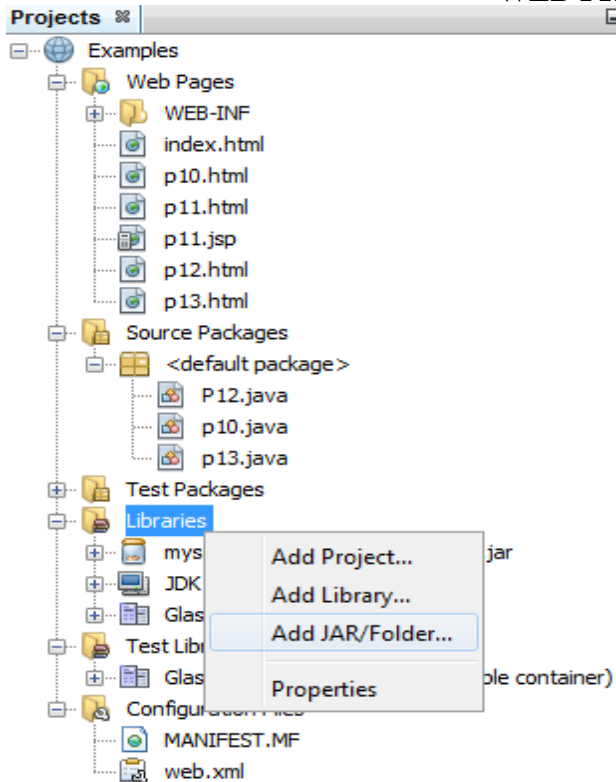
```
{
    pw.print(" Record Insertion  failure");
}

String sql = "SELECT * FROM tb_book2";
stmt = conn.createStatement();
ResultSet rs = stmt.executeQuery(sql);
pw.print("<br/><h2>Information from database</h2><br/>");
pw.print("<table border=1>");
pw.print("<tr><th>Name</th><th>Phone</th><th>Email</th></tr>");
while(rs.next())
{
    //Retrieve by column name
    int phone = rs.getInt("phone");
    String UserName = rs.getString ("uname");
    String email = rs.getString("email");

    //Display values
    pw.print("<tr>");
    pw.print("<td> " + UserName + "</td><td> " + phone + "</td><td> " + email +
"</td>");
    pw.print("</tr>");
}
pw.print("</table>");
rs.close();
}
catch(SQLException e)
{
    e.printStackTrace();
}
catch (Exception e)
{
    e.printStackTrace();
}
pw.println("</body>");
pw.println("</html>");
}
}
```

Download and add sql jar file in Libraries (mysql-connector-java-5.1.18-bin) as below for connecting to database



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Right click on html file and click on Run File

  localhost:8080/Examples/p13.html

Insert Student details

User : Phone : Email :   localhost:8080/Examples/p13?user=sav&phone=6768&email=sav%40gmail.com

Record inserted successfully

Information from database

Name	Phone	Email
savitha	12345	sa@gmail.com
ggf	54545454	mmdhongadi@yahoo.com
savi	6768	sa@gmail.com