National Institute of Technology, Tiruchirappalli



Department of Computer Applications

Web Technology and its Applications Lab Internal Lab

Submitted to: Submitted by:

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MCA – 2nd Year

1. Write a JSP program to display given numbers in words.

• index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Convert To Words</title>
<body>
<form method=get action="convertToWords.jsp">
<h1>Enter a Number: </h1>
<input type=text name=num><br>
<input type=submit value="Submit">
</form>
</body>
</head>
</html>
```

• convertToWords.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
   pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Number to Words</title>
```

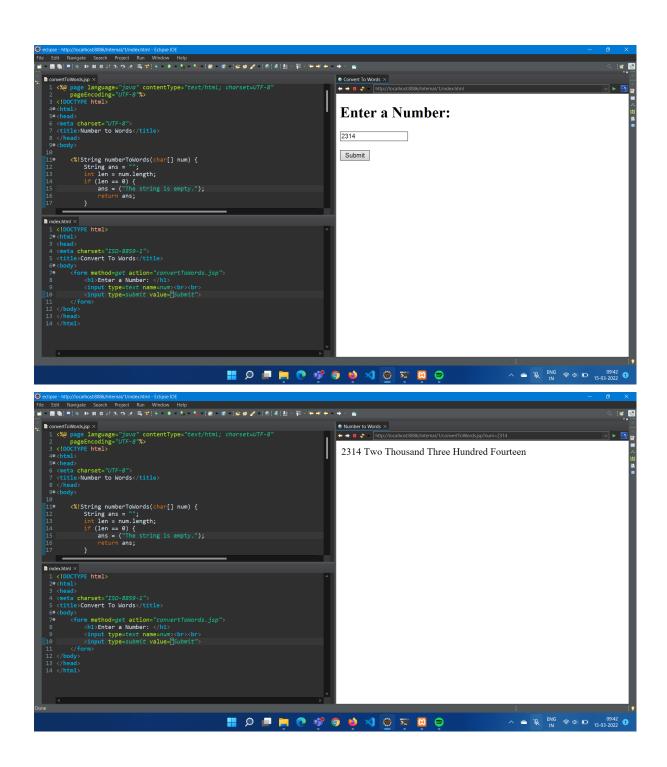
```
</head>
<body>
  <%!String numberToWords(char[] num) {</pre>
       String ans = "";
       int len = num.length;
       if (len == 0) {
               ans = ("The string is empty.");
              return ans;
       }
       if (len > 4) {
               ans = ("The given number has more than 4 digits.");
               return ans;
       }
       String[] onedigit = new String[] { "Zero", "One", "Two", "Three", "Four", "Five",
"Six", "Seven", "Eight",
                      "Nine" };
       String[] twodigits = new String[] { "", "Ten", "Eleven", "Twelve", "Thirteen",
"Fourteen", "Fifteen", "Sixteen",
                      "Seventeen", "Eighteen", "Nineteen" };
       String[] multipleoftens = new String[] { "", "", "Twenty", "Thirty", "Forty", "Fifty",
"Sixty", "Seventy",
```

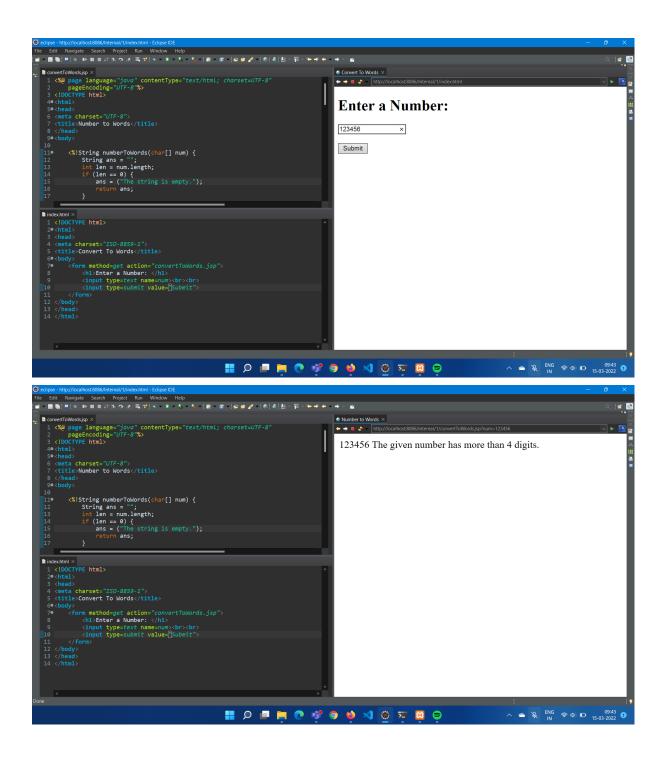
```
"Eighty", "Ninety" };
String[] poweroftens = new String[] { "Hundred", "Thousand" };
if (len == 1) {
       ans = (onedigit[num[0] - '0']);
       return ans;
}
int x = 0;
while (x < num.length) {
       if (len >= 3) {
              if (num[x] - '0' != 0) {
                      ans += onedigit[num[x] - '0'] + " " + poweroftens[len - 3] +
              }
              --len;
       } else {
              if (num[x] - '0' == 1) {
                      int sum = num[x] - '0' + num[x + 1] - '0';
                      ans += (twodigits[sum]);
                      return ans;
              }
```

```
ans += ("Twenty");
                           return ans;
                    }
                    else {
                           int i = (num[x] - '0');
                           if (i > 0)
                                  ans += (multipleoftens[i] + " ");
                           else
                                  ans += "";
                           ++x;
                           if (num[x] - '0' != 0)
                                  ans += (onedigit[num[x] - '0']);
                   }
            }
             ++x;
     }
     return ans;
}%>
```

else if $(num[x] - '0' == 2 &\& num[x + 1] - '0' == 0) {$

```
<%
String n = (String) request.getParameter("num");
out.println(n);
char[] ch = n.toCharArray();
out.println(numberToWords(ch));
%>
</body>
</body>
```





- 2. Write a JSP program to create a registration form, which has the following fields: first name, last name, username, password, address, contact number, email id, etc.
 - index.html

```
<html>
<head>
<meta charset="ISO-8859-1">
<title>Registration Form</title>
      <style>
      body{
      margin: 40px;
      background-color: blanchedalmond;
      display: flex;
      justify-content: center;
      }
      h1{
      background-color: yellow;
      padding: 20px;
      border-radius: 2rem;
      }
      .input-field{
      border-radius: 1rem;
      padding: 10px;
      margin-top: 5px;
      }
      label{
      font-size: 20px;
      }
      button{
```

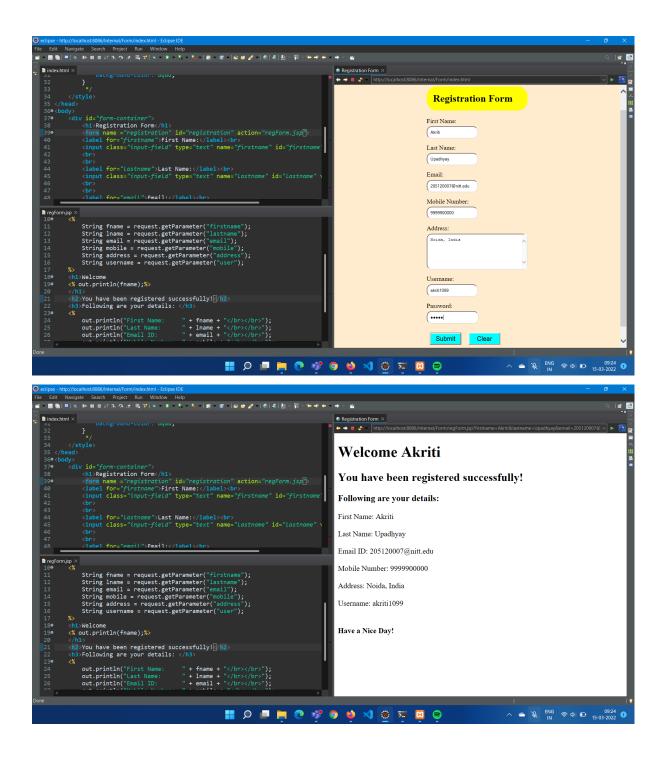
```
padding: 5px;
      margin: 10px;
      width: 100px;
      font-size: 20px;
      background-color: aqua;
      }
      */
      </style>
</head>
<body>
      <div id="form-container">
      <h1>Registration Form</h1>
      <form name ="registration" id="registration" action="regForm.jsp">
      <label for="firstname">First Name:</label><br>
      <input class="input-field" type="text" name="firstname" id="firstname"
value="" required>
      <br>
      <br>
      <label for="lastname">Last Name:</label><br>
      <input class="input-field" type="text" name="lastname" id="lastname" value=""</pre>
required>
      <br>
      <br>
      <label for="email">Email:</label><br>
      <input class="input-field" type="email" name="email" id="email" value=""
required>
```

```
<br>
      <br>
      <label for="email">Mobile Number:</label><br>
      <input class="input-field" type="text" name="mobile" id="mobile" value=""
required>
      <br>
      <br>
      <label for="address">Address:</label><br>
      <textarea class="input-field" name="address" id="address" rows="6"
      cols="35" required></textarea>
      <br>
      <br>
      <label for="user">Username:</label><br>
      <input class="input-field" type="text" name="user" id="user" value=""
required>
      <br>
      <br>
      <label for="password">Password:</label><br>
      <input class="input-field" type="password" name="password" id="password"
value="" required>
      <br>
      <br>
      <button type="submit" value="Submit">Submit/button>
      <button type="reset" id=btn>Clear/button>
      </form>
</div>
```

```
</body>
```

```
• regForm.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
      pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Registration Form</title>
</head>
<body>
  <%
       String fname = request.getParameter("firstname");
       String Iname = request.getParameter("lastname");
       String email = request.getParameter("email");
       String mobile = request.getParameter("mobile");
       String address = request.getParameter("address");
       String username = request.getParameter("user");
  %>
  <h1>Welcome
  <% out.println(fname);%>
  </h1>
  <h2>You have been registered successfully!</h2>
```

```
<h3>Following are your details: </h3>
  <%
      out.println("First Name: " + fname + "</br>");
      out.println("Last Name:
                                " + Iname + "</br></br>");
                                " + email + "</br></br>");
      out.println("Email ID:
       out.println("Mobile Number: " + mobile + "</br></br>");
      out.println("Address:
                                " + address + "</br></br>");
      out.println("Username:
                                " + username + "</br></br>");
  %>
  <h4>Have a Nice Day!</h4>
</body>
</html>
```



- 3. Write a PHP program to reverse a given string without using the library function.
 - index.html

```
<!DOCTYPE html>
<html lang="en">
```

reverseStr.php:

```
<?php
function myStrRev($string)

{
    $string_length = strlen($string);
    $reversed_string = '';

for ($i = ($string_length - 1); $i >= 0; $i--) {
        $reversed_string .= $string[$i];
    }
}
```

```
return $reversed_string;

}

$string = $_POST["string"];
echo "The reverse of string " . $string . " is: " . myStrRev($string);
?>
```





The reverse of string Web Technology Lab is: baL ygolonhceT beW



4. Write a PHP program to print number triangles.

Example: enter the range= 6

1

12321

1234321

123454321

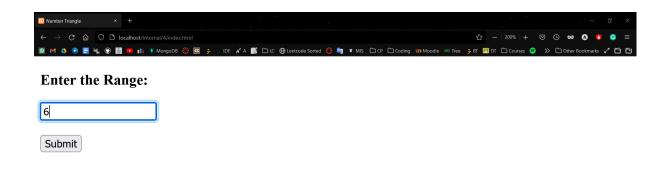
12345654321

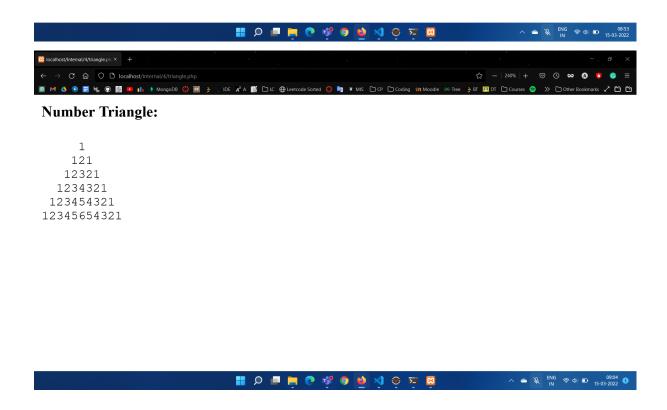
• index.html:

```
<!DOCTYPE html>
<html <u>lang="en"></u>
<head>
   <meta <pre>charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>Number Triangle</title>
</head>
<body>
    <form action="triangle.php" method="POST">
   <h3>Enter the Range: </h3>
    <input type="text" name="num" /><br/></pr>
    <input type="submit" value="Submit"/>
</form>
</body>
</html>
```

• triangle.php:

```
<?php
$count = intval($_POST["num"]);;
echo "<h4> Number Triangle: </h4>";
echo ">";
for ($i = 1; $i <= $count; $i++) {
   for ($j = 1, $up = true; $j > 0; $up ? $j++ : $j--) {
       echo $j;
     if ($j == $i) {
echo "";
?>
```





5. Write a PHP program to print the following star triangle.

```
*

* *

* * *

* * * *

* * * *

* * * *

* * * *

* * *
```

• index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>Star Triangle</title>
</head>
<body>
    <form action="star.php" method="POST">
   <h3>Enter the Range: </h3>
   <input type="submit" value="Submit"/>
</form>
</body>
</html>
```

• star.php:

```
<?php {
  echo "<h4> Star Pattern: </h4>";
     echo "   ";
      echo ("  *");
      echo "   ";
      echo ("  *");
```





Enter the Range:



