

National Institute of Technology, Tiruchirappalli



Department of Computer Applications

Web Technology and its Applications Lab ***External Exam***

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MCA – 2nd Year

1. Write a JavaScript program to convert a fractional decimal number (5.015625) to an octal number (5.01).

```
<!DOCTYPE html>

<html lang="en">

<head>

  <title>Decimal to Octal Conversion</title>

  <style>

    body{

      background-color: peachpuff;

      font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;

    }

  </style>

</head>

<body>

  <form name="f1" action="" method="POST" onsubmit="">

    <table cellpadding="10" cellspacing="5">

      <tr>

        <td>Enter a Decimal Number:</td>

        <td>

          <input type="text" name="decimal"/>

        </td>

      </tr>

      <tr>

        <td colspan="2">

          <input type="button" id="convert" value="Convert"/>

        </td>

      </tr>

    </table>

  </form>

</body>

</html>
```

```
        </td>

    </tr>

</table>

</form>

<div>

    <div id="result"></div>

</div>

</body>

<script>

    function decimalToOctal(decimal) {

        decimal = parseFloat(decimal);

        const octal = decimal.toString(8);

        return octal;

    }

    document.getElementById("convert").onclick = function () {

        const decimal = document.getElementsByName("decimal")[0].value;

        const octal = decimalToOctal(decimal);

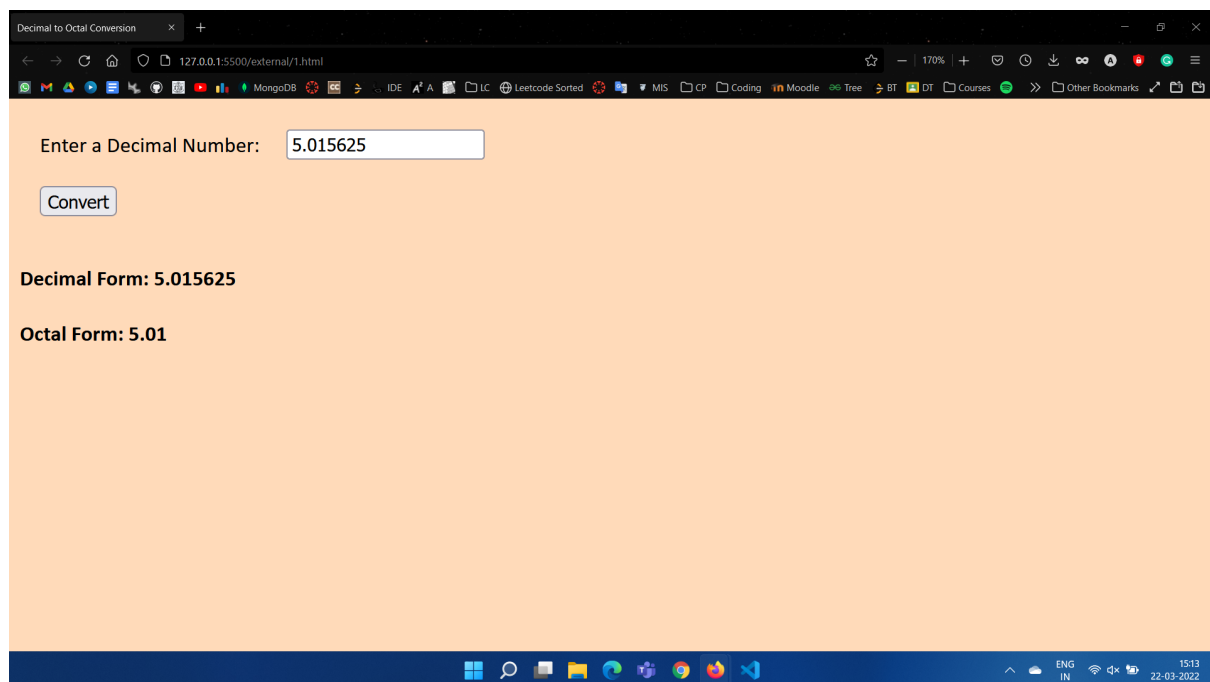
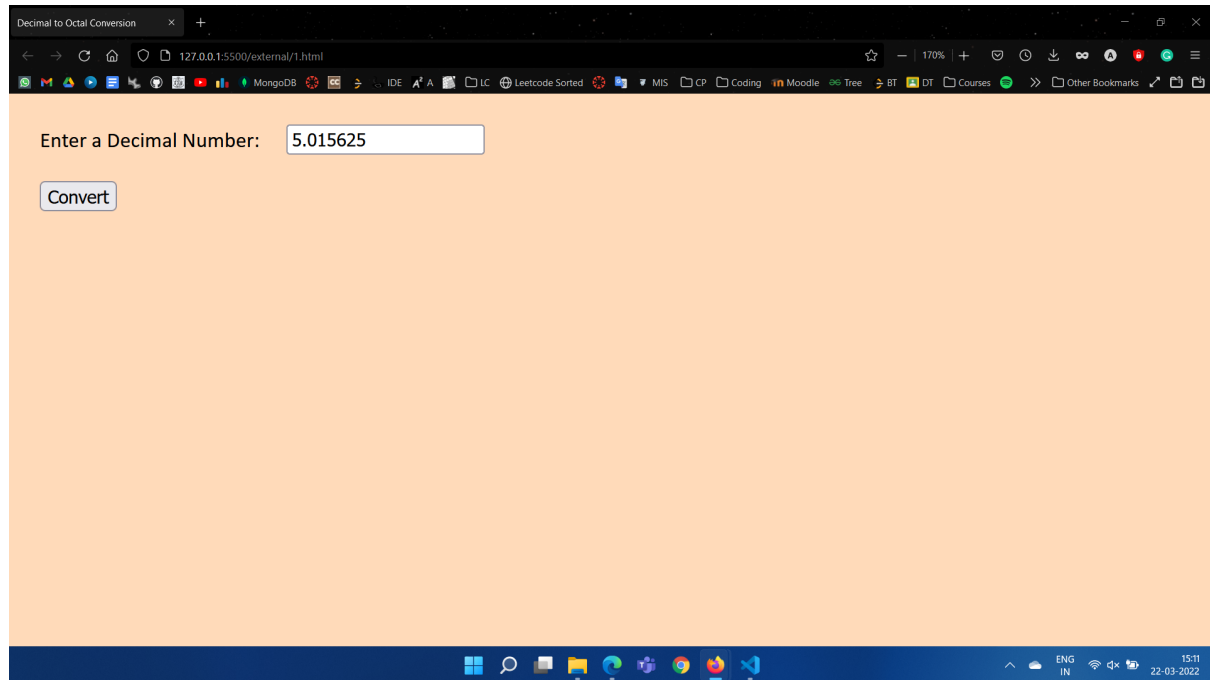
        document.getElementById("result").innerHTML =

            "<h4><span>Decimal Form: </span>" + decimal + "</h4>" +
            "<h4><span>Octal Form: </span>" + octal + "</h4>";

    };

</script>
```

```
</html>
```



2. Print the following pattern by using PHP.

```
*****
****  ****
***   ***
**    **
```

```

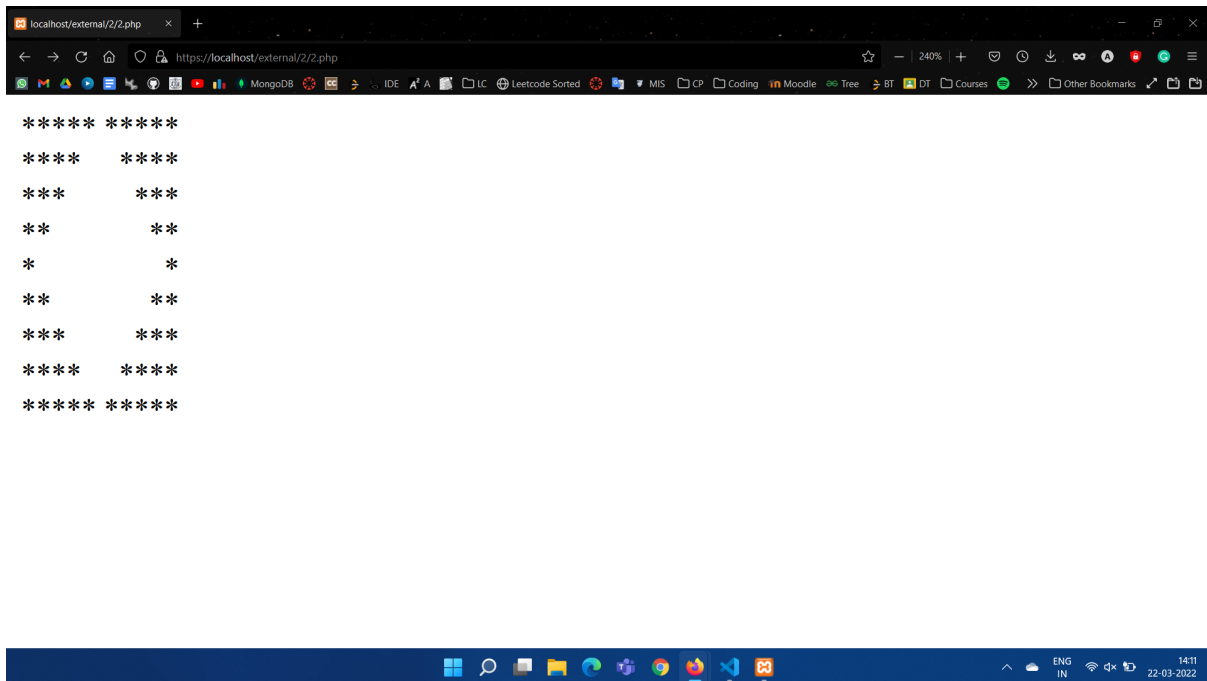
*          *
**         **
***        ***
****       ****
*****      *****

```

```

<?php {
    $num = 5;
    // Upper-half of the Pattern
    for ($i = 0; $i < $num; $i++) {
        for ($k = $num; $k > $i; $k--) {
            echo ("*");
        }
        for ($j = 0; $j <= $i; $j++) {
            echo "&nbsp;";
        }
        for ($s = 0; $s < $i; $s++) {
            echo "&nbsp;&nbsp;&nbsp;";
        }
        for ($r = $num; $r > $i; $r--) {
            echo ("*");
        }
        echo "<br>";
    }
    // Lower-half of the Pattern
    for ($i = $num - 1; $i > 0; $i--) {
        for ($k = $num - 1; $k >= $i - 1; $k--) {
            echo ("*");
        }
        for ($j = 0; $j < $i; $j++) {
            echo "&nbsp;";
        }
        for ($s = $i - 1; $s > 0; $s--) {
            echo "&nbsp;&nbsp;&nbsp;";
        }
        for ($r = $num; $r >= $i; $r--) {
            echo ("*");
        }
        echo "<br>";
    }
}
?>

```



3. Print the following number pattern by using PHP.

```
0
909
89098
7890987
678909876
56789098765
4567890987654
345678909876543
23456789098765432
1234567890987654321
```

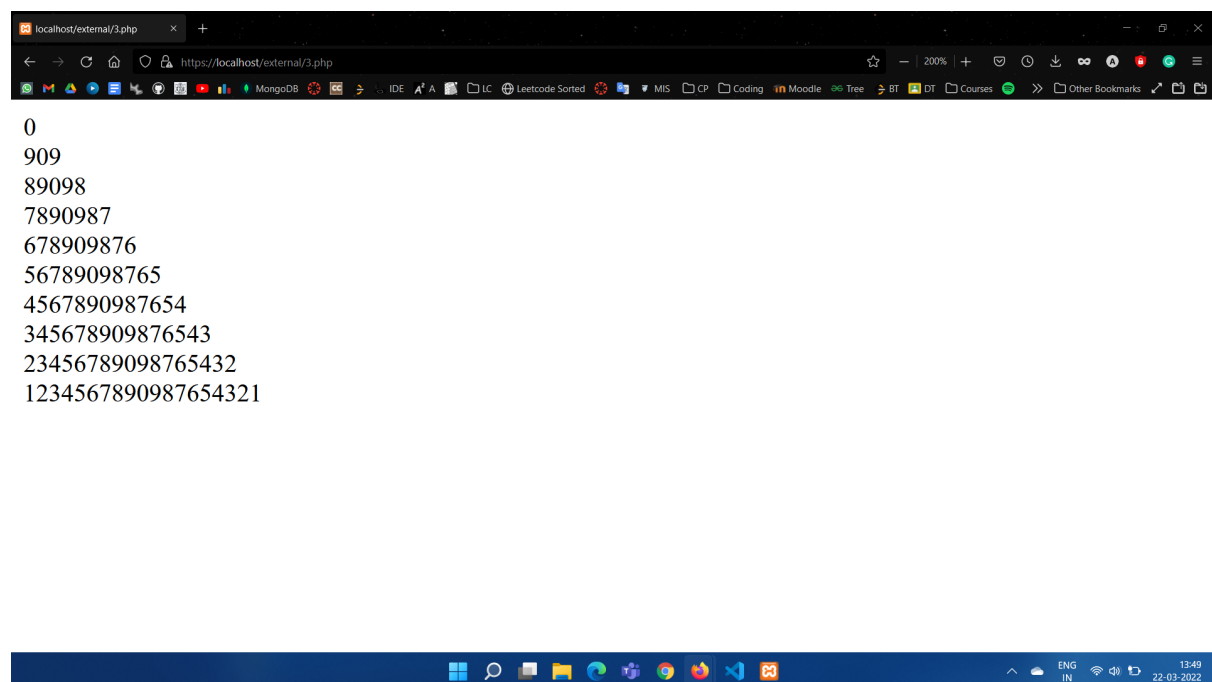
```
<?php
$lines = 10;
$i;
$j;
$count;
for ($i = 1; $i <= $lines; $i++) {
    $count = 0;
    for ($j = 1; $j < $lines; $j++) {
        if ($count < $i - 1) {
            if (!($j < $lines - $i + 1)) {
                echo $j;
            }
        }
    }
}
```

```

        $count++;
    }
}
}
echo '0';
$count = 0;
for (--$j; $j >= 1; $j--) {

    if ($count < $i - 1) {
        echo $j;
        $count++;
    }
}
echo "<br>";
}
?>

```



0
909
89098
7890987
678909876
56789098765
4567890987654
345678909876543
23456789098765432
1234567890987654321

4. Print the following alphabet pattern by using javascript.

```

E E E E E E E E E
E D D D D D D D E
E D C C C C C D E
E D C B B B C D E

```

EDCBABCDE

EDCBBBCDE

EDCCCCCDE

EDDDDDDDDE

EEEEEEEEEE

```
<!DOCTYPE html>

<html>

<head>

  <style>

    div {

      display: inline-block;

      text-align: center;

      width: 20px;

    }

  </style>

</head>

<body>

  <script>

    var i, j, k = 69;

    // Upper-half

    for (i = k; i >= 65; i--) {

      for (j = k; j >= 65; j--) {

        if (j > i)
```



```

        document.write("<div>" + String.fromCharCode(j) +
"</div>");

        else

            document.write("<div>" + String.fromCharCode(i) +
"</div>");

    }

    for (j = 66; j <= k; j++) {

        if (j > i)

            document.write("<div>" + String.fromCharCode(j) +
"</div>");

        else

            document.write("<div>" + String.fromCharCode(i) +
"</div>");

    }

    document.write("<br>");

}

// Lower-half

for (i = 66; i <= k; i++) {

    for (j = k; j >= 65; j--) {

        if (j > i)

            document.write("<div>" + String.fromCharCode(j) +
"</div>");

        else

            document.write("<div>" + String.fromCharCode(i) +
"</div>");

    }

    for (j = 66; j <= k; j++) {

```

```

        if (j > i)

            document.write("<div>" + String.fromCharCode(j) +
"</div>");

        else

            document.write("<div>" + String.fromCharCode(i) +
"</div>");

    }

    document.write("<br>");

}

</script>

</body>

</html>

```



```

EEEEEEEEEE
EDDDDDDDDE
EDCCCCCDE
EDCBBBCDE
EDCBABCDDE
EDCBBBCDE
EDCCCCCDE
EDDDDDDDDE
EEEEEEEEEE

```

5. REGISTRATION PAGE:

Create a “registration form “with the following fields

1) Name (Text field)

2) Password (password field)

3) E-mail id (text field)

4) Phone number (text field)

5) Sex (radio button)

6) Date of birth (3 select boxes)

7) Languages known (checkboxes – English, Telugu, Hindi, Tamil)

8) Address (text area)

```
<html>

<head>

<title>Registration Page</title>

<style>

    * {

        font-family:'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet
MS', sans-serif;

    }

    body {

        background-color: yellow;

    }

    h3{

        font-size: 30px;

        background-color: greenyellow;

        padding: 20px;

    }
```

```

.button{

    background-color: greenyellow;

    padding: 10px;

    font-weight: 700;

}

</style>

</head>

<body>

<center>

<br>

<h3 align="center">REGISTRATION FORM</h3>

<table>

<tr>

<td>

<form name="f1" action="" method="post" onsubmit="">

<table cellspacing="10" cellpadding="5">

<br>

<tr>

<td>Name :</td>

<td><input type="text" size="30" name="name" /></td>

</tr>

<tr>

<td>Password :</td>

<td><input type="password" size="30" name="pass"

/></td>

```

```
</tr>

<tr>

    <td>E-mail ID :</td>

    <td><input type="text" size="30" name="email" /></td>

</tr>

<tr>

    <td>Phone Number :</td>

    <td><input type="text" size="15" name="phone" /></td>

</tr>

<tr>

    <td>Gender :</td>

    <td>

        <input type="radio" name="sex" value="male"
/>Male<br>

        <input type="radio" name="sex" value="female"
/>Female<br>

        <input type="radio" name="sex" value="other"
/>Other<br>

    </td>

</tr>

<tr>

    <td>Date of Birth :</td>

    <td>

        <select name="day">

            <option value="day">Day</option>

            <option value="1">1</option>
```

```
<option value="2">2</option>

<option value="3">3</option>

<option value="4">4</option>

<option value="5">5</option>

<option value="6">6</option>

<option value="7">7</option>

<option value="8">8</option>

<option value="9">9</option>

<option value="10">10</option>

<option value="11">11</option>

<option value="12">12</option>

<option value="13">13</option>

<option value="14">14</option>

<option value="15">15</option>

<option value="16">16</option>

<option value="17">17</option>

<option value="18">18</option>

<option value="19">19</option>

<option value="20">20</option>

<option value="21">21</option>

<option value="22">22</option>

<option value="23">23</option>

<option value="24">24</option>

<option value="25">25</option>

<option value="26">26</option>
```

```
<option value="27">27</option>

<option value="28">28</option>

<option value="29">29</option>

<option value="30">30</option>

<option value="31">31</option>

</select>

<select name="month">

  <option value="month">Month</option>

  <option value="jan">January</option>

  <option value="feb">February</option>

  <option value="mar">March</option>

  <option value="apr">April</option>

  <option value="may">May</option>

  <option value="jun">June</option>

  <option value="jul">July</option>

  <option value="aug">August</option>

  <option value="sep">September</option>

  <option value="oct">October</option>

  <option value="nov">November</option>

  <option value="dec">December</option>

</select>

<select name="year">

  <option value="year">Year</option>

  <option value="1986">1986</option>

  <option value="1987">1987</option>
```

```
<option value="1988">1988</option>
<option value="1989">1989</option>
<option value="1990">1990</option>
<option value="1991">1991</option>
<option value="1992">1992</option>
<option value="1993">1993</option>
<option value="1994">1994</option>
<option value="1995">1995</option>
<option value="1996">1996</option>
<option value="1997">1997</option>
<option value="1998">1998</option>
<option value="1999">1999</option>
<option value="2000">2000</option>
<option value="2001">2001</option>
<option value="2002">2002</option>
<option value="2003">2003</option>
<option value="2004">2004</option>
<option value="2005">2005</option>
<option value="2006">2006</option>
<option value="2007">2007</option>
<option value="2008">2008</option>
<option value="2009">2009</option>
<option value="2010">2010</option>
<option value="2011">1980</option>
<option value="2012">1981</option>
```



```

        <option value="2013">1982</option>

        <option value="2014">1983</option>

    </select>

</td>

</tr>

<tr>

    <td>Languages known :</td>

    <td>

        <input type="checkbox" value="eng" name="lang"
/>English<br>

        <input type="checkbox" value="tel" name="lang"
/>Telegu<br>

        <input type="checkbox" value="hin" name="lang"
/>Hindi<br>

        <input type="checkbox" value="tam" name="lang"
/>Tamil<br>

    </td>

</tr>

<tr>

    <td>Address :</td>

    <td><textarea name="addr" cols="25"
rows="5"></textarea></td>

</tr>

<tr>

    <td colspan="2" align="center">

        <input class="button" type="submit" value="SUBMIT"
/>

```

[illegible]

The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/external/5/registration.html". The page has a yellow background and a green header with the title "REGISTRATION FORM". The form contains the following elements:

- Name :** A text input field.
- Password :** A text input field.
- E-mail ID :** A text input field.
- Phone Number :** A text input field.
- Gender :** Three radio button options: Male, Female, and Other.
- Date of Birth :** Three dropdown menus for Day, Month, and Year.
- Languages known :** Three checkbox options: English, Hindi, and Tamil.
- Address :** A large text area.
- Buttons:** Two green buttons labeled "SUBMIT" and "RESET" at the bottom.

X-X-X-X