



**Institute of Industrial and Computer Management and  
Research, Nigdi Pune**

**MCA**

**Department  
Academic**

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**IT23: Advanced Internet Technologies Lab  
Exercise-1**

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**Division:CodeWarriors**

# Assignment-1

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**Name: Shashikant Subechand Yadav**

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**Div: Codewarriors**

Q.1 WAP to change font size of a text as per the 'range' control value, ranging from 8 to 50

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Font Size Changer</title>
```

```
  <style>  #text {
```

```
font-size: 16px;
```

```
  }
```

```
</style>
```

```
</head>
```

```
<body>
```

```
  <input type="range" id="fontRange" min="8" max="50" value="16">
```

```
  <br>
```

```
  <span id="text">Text</span>
```

```
<script>
```

```
  var rangeInput = document.getElementById("fontRange");
```

```
  var textElement = document.getElementById("text");
```

```
  rangeInput.addEventListener("input", function() {
```

```

    var fontSize = rangeInput.value + "px";
    textElement.style.fontSize = fontSize;

    });
</script>
</body>
</html>

```



Q.2 Write a program to embed audio and video elements use controls.

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

```

```
<title>Program3</title>
</head>
<body>
  <audio controls loop autoplay >
    <source src="music.mp3" type="audio/mp3">
  </audio> <br>
  <video width="320" height="240" controls>
    <source src="nature.mp4" type="video/mp4">
  </video>

</body>
</html>
```



Q.3 WAP to draw a circle considering mouse click position as a centre.(Radius can be considered as 50)

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta http-equiv="X-UA-Compatible" content="IE=edge" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Document</title>


    <style>

.myCanvas {

  border: 1px solid black;

}

</style>

</head>

<body>

  <canvas class="myCanvas" width="500" height="500"></canvas>


  <script>

    let canvas = document.querySelector('.myCanvas');

let ctx = canvas.getContext('2d');

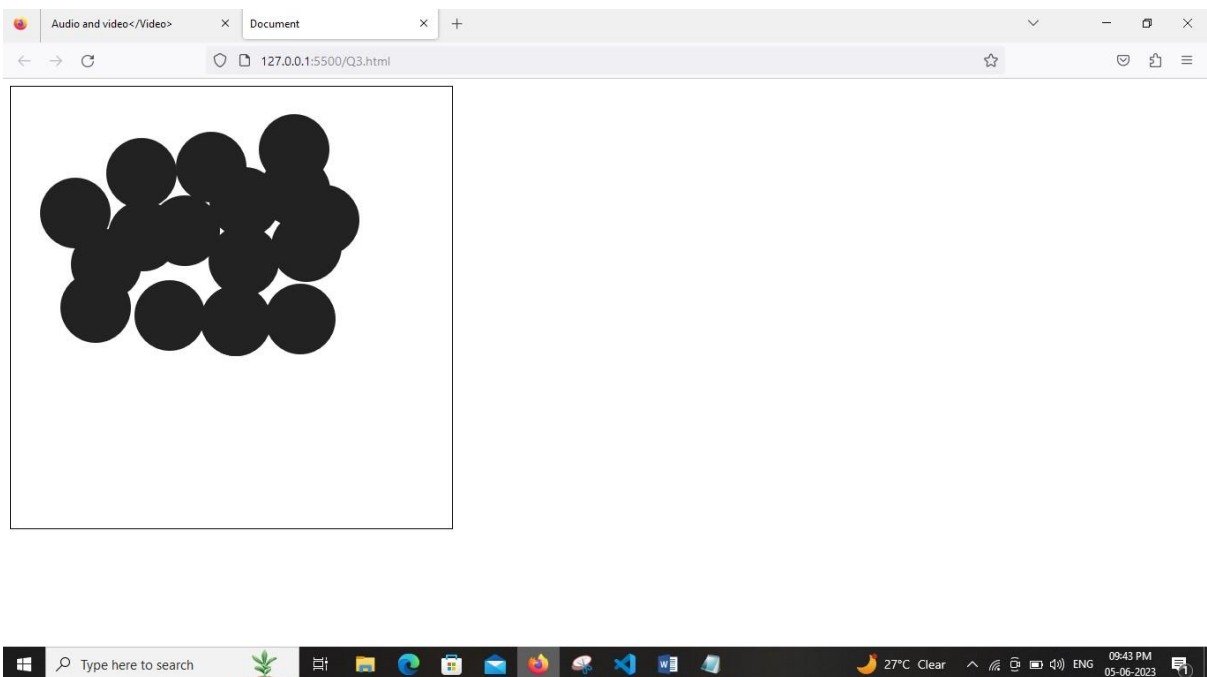

    canvas.addEventListener('click', function (e) {

let x = e.clientX;    let y = e.clientY;
```

```

    ctx.beginPath();
    ctx.arc(x, y, 40, 0, 2 * Math.PI);
    ctx.fillStyle = '#222';    ctx.fill();
  });
</script>
</body>
</html>

```



Q.4 Write a program to draw the rectangle shape using SVG and apply animation effect.

```

<!DOCTYPE html>
<html>
<head>

```

```
<title>Rectangle Drawing with Animation</title>

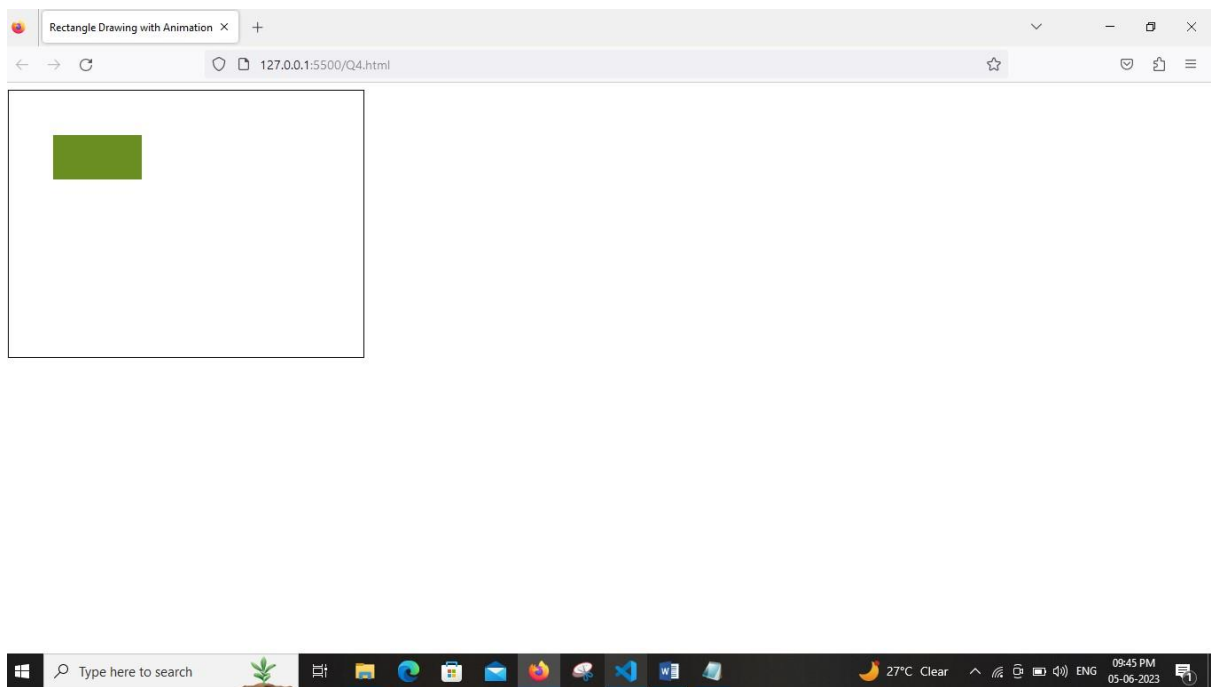
<style>  svg {    width:
400px;    height: 300px;
border: 1px solid black;
    }  rect {
fill: olivedrab;
    }
</style>
</head>
<body>

  <svg id="mySvg">
    <rect id="myRect" width="100" height="50" x="50" y="50" />
  </svg>


  <script>
    var rect = document.getElementById("myRect");
    rect.addEventListener("mouseover", function() {
    rect.setAttribute("width", "200");
    rect.setAttribute("height", "100");
    rect.setAttribute("x", "0");    rect.setAttribute("y",
"0");
    });
    rect.addEventListener("mouseout", function() {
    rect.setAttribute("width", "100");
    rect.setAttribute("height", "50");
```



```
rect.setAttribute("x", "50");    rect.setAttribute("y",  
"50");  
    });  
</script>  
</body>  
</html>
```



Q.5 Apply pseudo selectors to set the background color for visited and unvisited links to 'lightblue', and the background color for the hover and active link states to 'green'.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Link Styles</title>

<style>  /* Unvisited Links */
a:link {    background-color:
lightblue;
    }

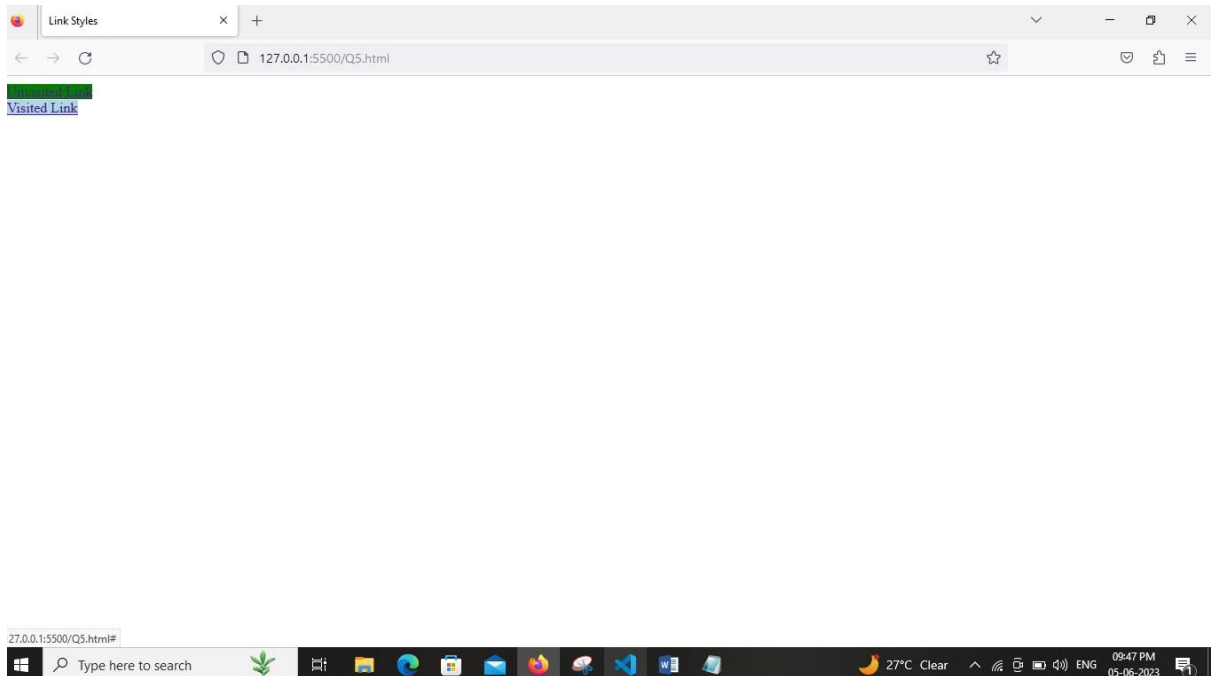
    /* Visited Links */    a:visited
{    background-color:
lightblue;
    }

    /* Hovered Links */
a:hover {    background-
color: green;
    }

    /* Active Links */
a:active {    background-
color: green;
    }
</style>
</head>
<body>
    <a href="#">Unvisited Link</a>
    <br>
    <a href="#" visited>Visited Link</a>
```

</body>

</html>



Q.6 Consider the heart shape as an image and apply Animation on hover effect where image will increase the size and revert back to original size with shadow effect.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<title>Document</title>

```
<!-- styles -->

<style>

  * {    margin: 0;
padding: 0;    box-sizing:
border-box;
  }

  .image-container {
max-width: 768rem;
width: 90vw;    height:
50vh;    margin: auto;
display: grid;    place-
items: center;
  }

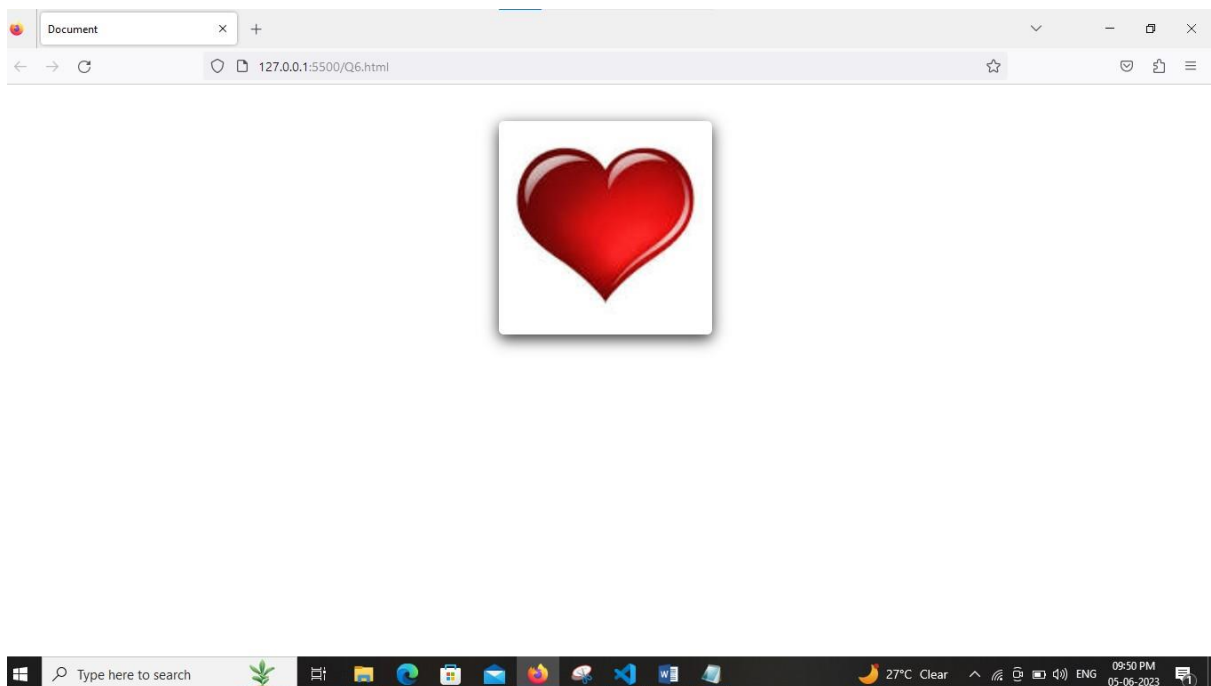
  .img {    width: 10rem;
height: 10rem;    border-
radius: 0.375rem;
transition: all 1s linear;
  }

  .img:hover {
width: 15rem;
height: 15rem;
    box-shadow: 0 5px 15px rgba(0, 0, 0, 0.8);
  }

</style>

</head>
```

```
<body>
  <div class="image-container">
    
  </div>
</body>
</html>
```



Q.7 Apply transition and transformation to perform following task:  
i. On hover of an image, it should rotate in 360 degrees. ii. On hover of a div, text should increase the size and removing cursor from div, size of the text should be restored.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Hover Effects</title>

<style>

    /* Image Hover Effect */

    .image-container {
display: inline-block;
transition: transform 0.5s;
    }

    .image-container:hover {
transform: rotate(360deg);
    }


    /* Text Size Change */

    .text-container {    display:
inline-block;    transition:
font-size 0.5s;    cursor:
pointer;
    }

    .text-container:hover {
        font-size: 24px;
cursor: default;
    }

</style>

</head>

<body>

    <div class="image-container">

        
```

```
</div>
```

```
<br>
```

```
<div class="text-container">
```

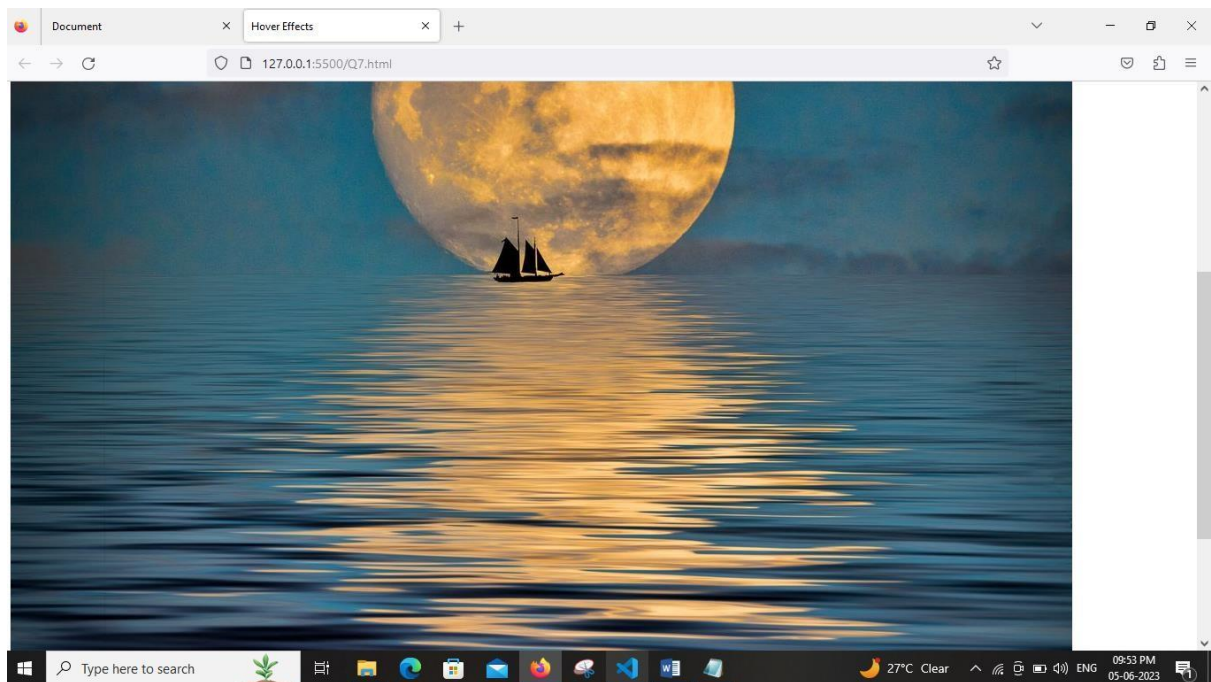
```
    Hover Me
```

```
</div>
```

```
</body>
```

```
</html>
```

## Output



Q.8 Write a PHP script to generate simple random password of 10 characters from a given string. Assume a string contains characters from A-Z, a-z, 0-9.

```
<?php

$small_alpha = "abcdefghijklmnopqrstuvwxyz";
$capital_alpha = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
$numbers = "0123456789";
$text = $small_alpha.$capital_alpha.$numbers;

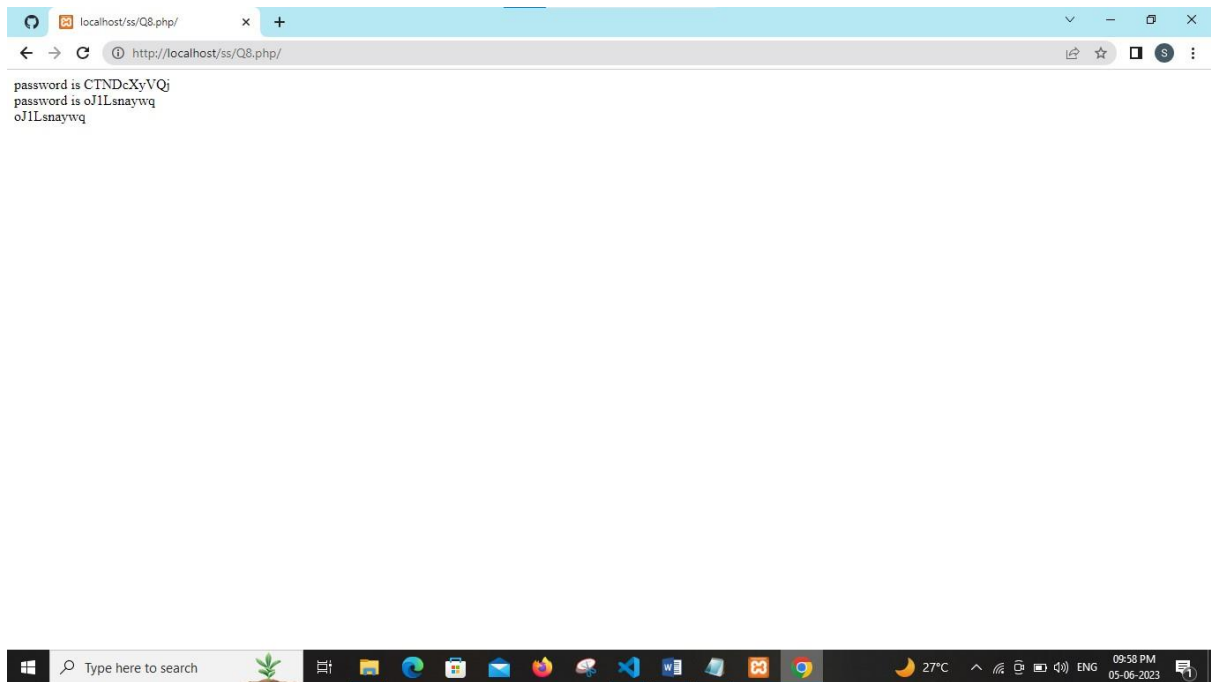
function generatePassword(){
global $text;

$password = substr(str_shuffle($text), 0, 10 );
echo "password is " . $password . " <br>";
$pattern = '/(?=.*\d)(?=.*[a-z])(?=.*[A-Z])[a-zA-Z0-9]{10}/'; if (preg_match($pattern, $password)) {
return $password;
}

return generatePassword();
}

echo generatePassword();
?>
```

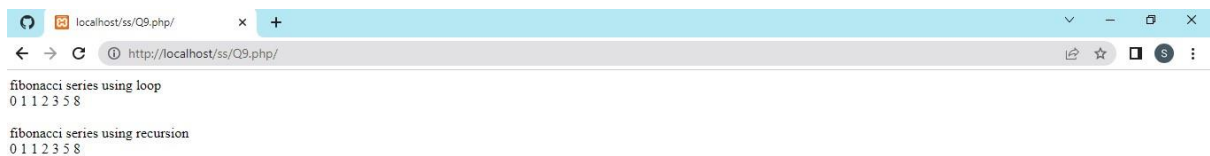




Q.9 Write a PHP script to print Fibonacci Series using both ways: loops, recursive function

```
<?php
// using loop
function fibonacci_using_loop($n){
    $a = 0; $b = 1; echo
    $a . " "; echo $b . " ";
    for($i = 2; $i<$n; $i++){
        $c= $a+$b; echo $c . "
    "; $a = $b;
        $b = $c;
    }
}
```

```
}  
  
echo "fibonacci series using loop <br>";  
fibonacci_using_loop(7);  
  
// using recursion  
function fibonacci_using_recursion($n, $a=0, $b=1){  
if($n==0){ return;  
}  
echo $a . " ";  
fibonacci_using_recursion($n-1, $b, $a+$b);  
}  
  
echo "<br><br>";  
echo "fibonacci series using recursion <br>";  
echo fibonacci_using_recursion(7);  
?>
```



Q.10 Create a table Emp with fields empno, name, address, salary, deptno Design HTML & PHP pages for following a. Insert a record b. Delete record c View record d Display department number wise group report

Html code

```
<html>
<body>
<center>
<h2>Employee Registration form</h2> <form
method ="post" action="employee.php">
Employee No:

<input type="text" name="empno"><br><br><br> Employee
Name:
<input type="text" name="name"><br><br><br> Address:
<input type="text" name="address"><br><br><br>
Salary
<input type="text" name="sal"><br><br><br> Department
No:
<input type="text" name="deptno"><br><br><br> <input
type="submit" name="save" value="save">
<input type="submit" name="delete" value="delete">
<input type="submit" name="view" value="view">
<input type="submit" name="display" value="display">
</form></center></body></html>
```

Php code

```
<?php
$servername='localhost';
$username='root';
$password='';
$dbname='mydb';
$conn=mysqli_connect($servername,$username,$password,$dbname);
if(!$conn)
{
    die("could not connect mysql :".mysqli_error());
}
if(isset($_POST['save']))
{
    $empno=$_POST['empno'];
    $name=$_POST['name'];
    $address=$_POST['address'];
    $sal=$_POST['sal'];
    $deptno=$_POST['deptno'];
    $sql="insert into employee values ($empno,'$name','$address',$sal,$deptno)";
    if(mysqli_query($conn,$sql)){ echo "New Record Inserted";
}
else
{
    echo "Error : ".$sql." ".mysqli_error($conn);
}
mysqli_close($conn);
```

```
}  
if(isset($_POST['delete']))  
{  
    $empno=$_POST['empno'];  
    //$name=$_POST['name'];  
    //$address=$_POST['address'];  
    //$sal=$_POST['sal'];  
    //$deptno=$_POST['deptno'];  
    $sql="delete from employee where empno = $empno";  
    if(mysqli_query($conn,$sql)){ echo " Record Deleted ";  
    }  
    else  
    {  
        echo "Error : ".$sql." ".mysqli_error($conn);  
    }  
    mysqli_close($conn);  
}  
if(isset($_POST['view']))  
{  
    $empno=$_POST['empno'];  
    //$name=$_POST['name'];  
    //$address=$_POST['address'];  
    //$sal=$_POST['sal'];  
    //$deptno=$_POST['deptno'];  
    $sql="select * from employee where empno = $empno";
```

```

$result=mysqli_query($conn,$sql);
    if(mysqli_num_rows($result)>0)
    {
        $row=mysqli_fetch_assoc($result); echo
        "Employee no : ".$row['empno']."<br>"; echo
        "Name : ".$row['name']."<br>"; echo "Address :
        ".$row['address']."<br>"; echo "Salary :
        ".$row['sal']."<br>"; echo "Department no :
        ".$row['deptno']."<br>"; }
    }
    if(isset($_POST['display']))
    {
        $sql="select * from employee order by deptno";
        $result=mysqli_query($conn,$sql);
        if(mysqli_num_rows($result)>0)
        {

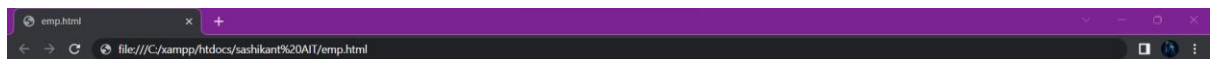
?>
            <table border=1>
            <th>Employee no </th>
            <th>Employee name </th>
            <th>Address </th>
            <th>Salary </th>
            <th>Department no </th>
            <?php
                while($row=mysqli_fetch_assoc($result))

```

```

        {
            echo
            "<tr><td>".$row['empno'].</td><td>".$row['name'].</td><td>".$row['address'].</td><td>".$row['sal'].</td><td>".$row['deptno'].</td></tr>";
        }
    }
}
else{
    echo "0 result";
}
mysqli_close($conn);
}
?>

```



**Registration form**

Employee No:

Employee Name:

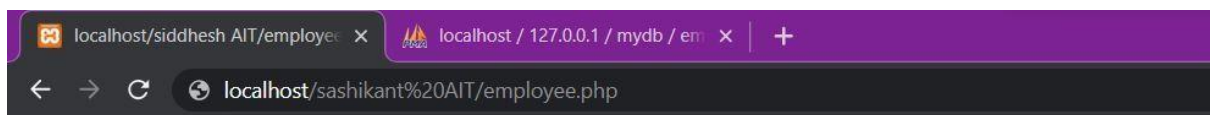
Address:

Salary:

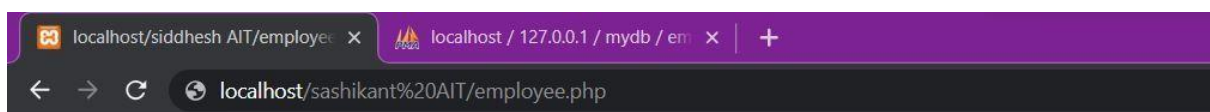
Department No:



New Record Inserted



Employee no	Employee name	Address	Salary	Department no
103	sashikant	bandra	5000	108



Employee no : 103  
Name : sashikant  
Address : bandra  
Salary : 5000  
Department no : 108