V Semester JavaScript & PHP
Program List for the Academic Year 2020-21

Program number 1

Write a JavaScript program to perform find the area and circumference of a circle

```
<html>
<head>
 <title>Area and Circumference</title>
</head>
<body>
<form>
Enter the radius : <input type="number" id="radius">
<button onclick="calculate()"> Submit </button>
</form>

<script>
 function calculate()
  {
   var pi=3.14;
   var r=document.getElementById("radius").value;
   var a=pi*r*r;
   var c=2*pi*r;
   document.write("Area = " +a);
   document.write("<br>Circumference = " +c);
  }
</script>
</body>
</html>
```

……..

Program number 2

Write a JavaScript program to check whether a given number is perfect,abundant or deficient. Use an alert box to display the output.

```
<html>
<body>
<h3>Enter the Number</h3><br>
<input type="text" id="number"/>
<button onclick="number()"> Submit </button>
<script>
 function number()
  {
   var no=document.getElementById("number").value;
   var sum=0;
   var i;
   for(i=1;i<no;i++)
   {
    if(no%i == 0)
      sum = sum + i;
   }
   if(sum == no )
   alert("Perfect Number");
   else if(sum > no)
   alert("Abundant Number");
   else
    alert("Deficient Number");
  }
</script>
</body>
</html>
```

……..

Program number 3

Design a JavaScript program to display the multiplication table by accepting the number and the limit.

```
<html>
<head>
<title>multiplication table</title>
</head>
<body>
<form>
<h1>Multiplication table</h1>
Enter the number :<input type="number" id="num"><br>
Enter the range :<input type="number" id="range"><br>
<button onclick="multi()">Generate table</button>
</form>
<script>
function multi()
{
  var num = document.getElementById("num").value;
  var range = document.getElementById("range").value;
  for(i = 1; i <= range; i++)
   {
   var result = i * num;
   document.write(i+"*"+num+"="+result+"<br>");
   }
}
</script>
</body>
</html>
```

……..

Program number 4

Design a form that accepts two integers. Provide 4 buttons for Add, Subtract, Multiply, Divide. Add JavaScript program to add, subtract, multiply and divide the given numbers when these buttons are clicked. Use an output element to display the results.

```
<html>
<head>
```

```
<title>Arithmetic operation</title>
</head>
<body>
<form>
<h1>Arithmetic operation</h1>
Enter the number1 :<input type="number" id="num1"><br>
Enter the number2 :<input type="number" id="num2"><br>
<button onClick="add()">Add</button>
<button onClick="sub()">Subtract</button>
<button onClick="multi()">Multiply</button>
<button onClick="div()">Divide</button>
</form>
<script>
 function add()
  {
   var num1 = parseInt(document.getElementById("num1").value);
   var num2 = parseInt(document.getElementById("num2").value);
   document.write("Sum = " +(num1+num2));
  }
 function sub()
  {
   var num1 = parseInt(document.getElementById("num1").value);
   var num2 = parseInt(document.getElementById("num2").value);
   document.write("Difference = "+(num1-num2));
  }
 function multi()
  {
   var num1 = parseInt(document.getElementById("num1").value);
   var num2 = parseInt(document.getElementById("num2").value);
   document.write("Product = " +(num1*num2));
  }
 function div()
  {
   var num1 = parseInt(document.getElementById("num1").value);
   var num2 = parseInt(document.getElementById("num2").value);
   document.write("Quotient = " +(num1/num2));
  }
```

```
</script>
</body>
</html>
```

……..

Program number 5

Write a JavaScript program to store different colors in an array and change the background color of the page using these array elements

```
<html>
<head>
<title>color</title>
</head>
<body>
<h1>Change background color</h1>
<button onclick="change()">click here</button>
<script>
function change()
{
var color=["blue","red","orange","yellow","green","violet"];
var i=Math.floor(Math.random()*10);
document.bgColor = color[i];
}
</script>
</body>
</html>
```

……..

Program number 6

Write a JavaScript program to check whether a given string is palindrome or not.

```
<html>
<head>
```

```
<title>Palindrome</title>
</head>
<body>
<script>
function check(string)
 {
  var len = string.length;
  if(string=='')
  alert("Enter a string");
  else
   {
    for (var i = 0; i < len / 2; i++)
     {
      if (string[i] !== string[len - 1 - i])
        return 'It is not a palindrome';
     }
        return 'It is a palindrome';
   }
 }
 const string = prompt('Enter a string: ');
 const value=check(string);
 alert(value);
</script>
</body>
</html>
```

……..

Program number 7

Write a JavaScript Program to create an Array and read values using Prompt popup box and display the sum of elements in an Alert Box.

```
<html>
<head>
<title>sum of digit</title>
</head>
```

```
<body>
<script>
  var sum=0;
  var digit=new Array();
  var n= prompt('Enter no.of values : ');
  for(i=0;i<n;i++)
   {
    digit[i] = Number(prompt('Enter the digit : '));
   }
  for(i=0;i<n;i++)
   {
    sum = sum+digit[i];
   }
  alert("Sum of elements "+sum);
</script>
</body>
</html>
```

……..

Program number 8

Change the text colour and back colour of a TextBox using onfocus and onBlur event.

```
<head>
<title>event</title>
</head>
<body>
<h1>onFocus and onBlur event</h1>
<input type="text" id="text1" onfocus="focusFunction()" onblur="blurFunction()">
<script>
function focusFunction()
  {
    document.getElementById("text1").style.background="yellow";
    document.getElementById("text1").style.color = "blue";
  }
```

```
function blurFunction()
  {
    document.getElementById("text1").style.background="green";
    document.getElementById("text1").style.color = "red";
  }
</script>
</body>
</html>
```

……..

Program number 9

Write a JavaScript program to display the Capital of a country using onchange events. The county is selected from a select box and capital is displayed on a TextBox.

```
<html>
<head><title>country capital</title>
</head>
<body>
<h1>Country and its capital</h1>
<select id="country" onchange="capital()">
  <option value="China">China</option>
  <option value="India">India</option>
  <option value="Italy">Italy</option>
  <option value="Japan">Japan</option>
  <option value="Nepal">Nepal</option>
</select>
<input type="text" id="demo" size="30"></p>
<script>
function capital()
  {
   var x = document.getElementById('country').value;
    if(x=='China')
      document.getElementById("demo").value = "Capital of China is Beijing";
    else if(x=='India')
      document.getElementById("demo").value  = "Capital of India is New Delhi";
```

```
    else if(x=='Italy')
      document.getElementById("demo").value  = "Capital of Italy is Rome";
    else if(x=='Japan')
      document.getElementById("demo").value = "Capital of Japan is Tokyo";
    else if(x=='Nepal')
      document.getElementById("demo").value  = "Capital of Nepal is Kathmandu";
  }
</script>
</body>
</html>
```

……..

Program number 10

Write a JavaScript program for Password validation based on the following condition

- **Password and confirm password must be same**
- **Length of password must be greater than 8 characters**

```
</head>
<body>
<h1>REGISTRATION FORM</h1>
  USERNAME :<input type="text" id="uname"><br>
  PASSWORD :<input type="password" id="pass1"><br>
  RE-ENTER PASSWORD :<input type="password" id="pass2"><br>
<button onclick="validate()">Submit</button>
<script>
function validate()
  {
   var pass1 = document.getElementById('pass1').value;
   var pass2 = document.getElementById('pass2').value;
   if(pass1 != pass2)
    {
     alert("password must be same");
    }
   if(pass1.length <= 8)
```

```
    {
     alert("password length must be greater than 8 characters");
    }
  }
</script>
</body>
</html>
```

……..

Program number 11

Write a PHP program to check whether a given number is Armstrong or not.

```
<html>
<body>
<h2>Armstrong or not</h2><br>
<form action="" method="post">
Enter the number :<input type="text" name="number" />
<input type="submit" />
</form>
</body>
</html>

<?php
 if($_POST)
  {
   $number = $_POST['number'];
   $temp = $number;
   $sum = 0;
   while( $temp != 0 )
    {
     $rem = $temp % 10;
     $sum = $sum + ( $rem * $rem * $rem );
     $temp = $temp / 10;
    }
  if($number == $sum)
   echo "Armstrong Number";
```

```
 else
  echo "Not an Armstrong Number";
 }
?>
```

……..

Program number 12

Display the Fibonacci series up to a given number.

```
<html>
<body>
<form action="" method="post">
Enter limit :<input type="text" name="limit" /><br>
<input type="submit" value="Fib" /><br>
</form>
</body>
</html>

<?php
 if($_POST)
  {
   $n=$_POST['limit'];
   $a=0;
   $b=1;
 while($a<=$n)
    {
     echo "$a <br>";
     $c=$a+$b;
     $a=$b;
     $b=$c;
    }
  }
?>
```

……..

Program number 13

Create a PHP program to display the bio data of a person by reading the personal details using an HTML page.

```
<html>
<body>
<h1 align="center">BIO DATA</h1>
<form action="" method="post">
Name:<input type="text" name="name" /><br>
Date of birth :<input type="text" name="dob" /><br>
Gender :<input type="radio" name="gender" value="male"> Male
<input type="radio" name="gender" value="female"> Female<br>
Educational qualification : <select name="qualification">
<option value="Plus Two">Plus Two</option>
<option value="Degree">Degree</option>
<option value="PG">PG</option>
</select><br>
Name of father :<input type="text" name="fname" /><br>
Name of mother :<input type="text" name="mname" /><br>
Phone number:<input type="number" name="phone"><br>
<input type="submit" value="Submit" /><br>
</form>
</body>
</html>
```

```
<?php
 if($_POST)
  {
   $name=$_POST['name'];
   $dob=$_POST['dob'];
   $gender=$_POST['gender'];
   $qualification=$_POST['qualification'];
   $fname=$_POST['fname'];
   $mname=$_POST['mname'];
   $phone=$_POST['phone'];
```

```
  echo "<br><br><b>Personal Details<br>";
  echo "..... <br>";
  echo "Name : $name <br>";
  echo "Date of Birth : $dob <br>";
  echo "Gender : $gender <br>";
  echo "Qualification : $qualification <br>";
  echo "Name of father : $fname <br>";
  echo "Name of mother : $mname <br>";
  echo "Phone number : $phone <br><b>";
 }
?>
```

……..

Program number 14

Write a PHP function to reverse a string

```
<html>
<body>
<form action="" method="post">
Enter the string :<input type="text" name="str" /><br>
<input type="submit" value="Reverse" /><br>
</form>
</body>
</html>

<?php
 if($_POST)
  {
  $str=$_POST['str'];
  reverse($str);
  }
  function reverse($str)
  {
        $length = strlen($str);
        for ($i=($length-1) ; $i >= 0 ; $i--)
```

```
        {
        echo $str[$i];
        }
  }
?>
```

……..

Program number 15

Write a PHP program to check whether a given number is perfect, abundant or deficient.

```
<html>
<body>
<h3>Enter the Number</h3><br>
<form action="" method="post">
<input type="text" name="number" />
<input type="submit" />
</form>
</body>
</html>
<?php
 if($_POST)
  {
  $no = $_POST['number'];
  $sum = 0;
  for ($i = 1; $i < $no; $i++)
   {
    if ($no % $i == 0)
      $sum = $sum + $i;
   }
  if( $sum == $no )
   echo "Perfect Number";
  else if($sum > $no)
   echo "Abundant Number";
  else
```

```
   echo "Deficient Number";
 }
?>
```

……..

Program number 16

Create a login page using the database.

```
<html>
<head>
</head>
<body>
<form action="" method="POST">
Username:<input type="text" name="usr"><br><br>
Password:<input type="password" name="pass"><br><br><br>
<input type="submit" value="login">
</form>
</body>
</html>
```

```
<?php
 if($_POST)
  {
   $usr1=$_POST['usr'];
   $paswd=$_POST['pass'];
   $con=pg_connect("host=localhost dbname=college user=postgres password=root");
   if($con)
    {
     echo "Successfully Connected ......";
     $qry="select username,password from login where username='$usr1' and
password='$paswd' ";
     $result=pg_query($con,$qry);
     $nos=pg_num_rows($result);
     if($nos)
      echo " <br> $usr1, You are Logged Successfully ..";
```

```
    else
     echo "Login Denied";
   }
 }
?>
```

……..

Program number 17

PHP program to store current date-time in a cookie and display the Last visited date-time on the web page upon revisiting the same web page.

```
<html>
<body bgcolor="yellow">
<h2> Last visited time on the web page</h2>
<br>
<?php
 $intm = 60 * 60 * 24 * 60 + time();
 setcookie('lastVisit', date("G:i - m/d/y"), $intm);
 if(isset($_COOKIE['lastVisit']))
  {
   $visit = $_COOKIE['lastVisit'];
   echo "Your last visit was - ". $visit;
  }
 else
  echo "You have got some state cookies!";
?>
</body>
</html>
```

……..

Program number 18

Write an HTML page to display a list of fruits in a list box. Write a php program to display the selected fruits in a webpage.

```
<html>
<body>
<form action="" method="POST">
Choose Your Favorite Fruit
<select name="f">
<option value="">(Please Select)</option>
<option value="Grape">Grape</option>
<option value="Banana">Banana</option>
<option value= "Chicku">Chicku</option>
<option value="Apple">Apple</option>
<option value="Orange">Orange</option>
<option value="Pine Apple">Pine Apple</option>
</select>
<input type="submit" value="SELECT">
</form>
</body>
</html>
<?php
 if($_POST)
  {
   echo "<h2> You have indicated that you like " .$_POST['f']. "</h2>";
  }
?>
```

……..

Program number 19

Write a PHP program to create an array and store 10 names in the array. Do the following operations.

a. Display the contents using for each statement.

b. Display the array in a sorted order.

c. Display the array without the duplicate elements

d. Remove the last element and display

e. Display the array in reverse order

f. Search an element in the given array.

```
<html>
<body>
<h2>Array Operations</h2>
<form action="" method="post">
<?php
 echo "<br><input type=radio name=arr value=dis>Display Array";
 echo "<br><input type=radio name=arr value=srt>Sorted Array";
 echo "<br><input type=radio name=arr value=usrt>Without Duplicate";
 echo "<br><input type=radio name=arr value=pop>Delete Last";
 echo "<br><input type=radio name=arr value=rev>Array Reverse";
 echo "<br><input type=radio name=arr value=sear>Array Search";
 echo "<br><input type=Submit>";
$names=array("Raju","Kiran","Vani","Basheer","Kumar","Jhon","Shani","Athira",
"Kiran","Sivan");
?>
</body>
</html>

<?php
 if($_POST)
  {
   $val=$_POST['arr'];
   switch($val)
    {
     case "dis" : foreach($names as $value)
                   echo "<br>".$value;
                  break;
     case "srt" : sort($names);
                  foreach($names as $value)
                  echo  "<br>".$value;
                  break;
     case "usrt": $uarray=array_unique($names);
                  foreach($uarray as $value)
                   echo "<br>".$value;
                  break;
     case "pop" : array_pop($names);
```

```
                foreach($names as $value)
              echo "<br>".$value;
              break;
    case "rev" : $revarr=array_reverse($names);
              foreach($revarr as $value)
               echo "<br>".$value;
              break;
    case "sear": echo "<br>".array_search("Jhon",$names,true);
              break;
   }
 }
?>
```

……..

Program number 20

Create a table student with fields roll no, name, mark, grade. Insert some records in the table. Write a PHP program to display the mark list of a student by accepting the register no. of the student.

```
<html>
<head>
<title>Marklist</title>
</head>
<body>
<h3><center>Marksheet</center></h3>
<form method="POST" action="">
Regno:<input type="text" name="reg"/><br><br><br>
<input type="submit" value="show">
</form>
</body>
</html>

<?php
 if($_POST)
  {
```

```
  $rg=$_POST['reg'];
  $con =pg_connect("host=localhost dbname=college user=postgres password=root");
  if($con)
   echo "Successfully Connected...";
  $qry="select * from stud where rollno=$rg";
  $result=pg_query($con,$qry);
  $nos=pg_num_rows($result);
  while($row=pg_fetch_row($result))
   {
    echo "<br>\n";
    echo "rollno: $row[0] <br> name: $row[1] <br> mark: $row[2] <br> grade: $row[3]";
   }
 }
?>
```

……..