**V Semester JavaScript & PHP**

**Program List for the Academic Year 2020-21**

**JavaScript**

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

<html>

<head>

<title>Find the area and circumference of a circle</title>

</head>

<body>

<script language="JavaScript">

function CalculateArea()

{

var radius =document.form1.txtRadius.value;

document.write("<P>The area of the circle is " + (radius \* radius \* 3.14) + "</p>");

document.write("<P>The circumference of the circle is " + (2 \* radius \* 3.14) + "</p>");

}

</script>

<form name='form1'>

Enter the radius of circle:

<input type="text" name="txtRadius" size=10>

<br>

<input type="submit" value="Calculate" onClick='CalculateArea();'>

</form>

</body>

</html>

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

<script>

var input=prompt("Enter a value");

var v=input;

var count=0;

for(var i=1; i<input; i++)

{

if(input%i==0)

{

count=count+i;

}

}

if(count==v)

{

alert("given no is perfect");

}

else if(count>v)

{

alert("given no is an abundant");

}

else

{

alert("given no is deficient");

}

</script>

1. **Design a JavaScript program to display the multiplication table of a no accepted from the user.**

<html>

<head>

<title>JavaScript - Function to Display Multiplication Table of an entered Number.</title>

<script type="text/javascript">

function printTable()

{

var num=Number(document.getElementById('txtNumber').value);

for(var i=1; i<=10; i++)

{

var p= document.getElementById('Print');

p.innerHTML += (num+'\*'+i+'='+num\*i) + "<br/>"

}

}

</script>

</head>

<body style="text-align: center;">

<p><input type="text" id="txtNumber" placeholder="Enter number"/></p>

<p><input type="button" value="Print Table" onclick='printTable()'/>

<p id="Print"></p>

</body>

</html>

1. **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 output element to display the results.**

<html>

<head>

<meta charset=utf-8 />

<title>JavaScript program to calculate multiplication and division of two numbers </title>

<script>

function add()

{

num1 = parseInt(document.getElementById("firstNumber").value);

num2 = parseInt(document.getElementById("secondNumber").value);

document.getElementById("result").value = num1 + num2;

}

function subtract()

{

num1 = parseInt(document.getElementById("firstNumber").value);

num2 = parseInt(document.getElementById("secondNumber").value);

document.getElementById("result").value = num1 - num2;

}

function multiply()

{

num1 = parseInt(document.getElementById("firstNumber").value);

num2 = parseInt(document.getElementById("secondNumber").value);

document.getElementById("result").value = num1 \* num2;

}

function divide()

{

num1 = parseInt(document.getElementById("firstNumber").value);

num2 = parseInt(document.getElementById("secondNumber").value);

document.getElementById("result").value = num1 / num2;

}

</script>

</head>

<body>

<form>

1st Number : <input type="text" id="firstNumber" /><br>

2nd Number: <input type="text" id="secondNumber" /><br>

<input type="button" onClick="add()" Value="Addition" />

<input type="button" onClick="subtract()" Value="Subtraction" />

<input type="button" onClick="multiply()" Value="Multiply" />

<input type="button" onClick="divide()" Value="Divide" />

</form>

<p>The Result is : <br>

<input type="text" id = "result" readonly/>

</p>

</body>

</html>

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

<!DOCTYPE html>

<html>

<body>

<center>

<script>

function myArray(n)

{

var backcolor=["#00f00","#ff0000","#0000ff","#cce"];

document.bgColor=backcolor[n];

}

</script>

<a href="#" onmouseover="myArray(1)">Red</a>

<a href="#" onmouseover="myArray(2)">Blue</a>

<a href="#" onmouseover="myArray(4)">Green</a>

<a href="#" onmouseover="myArray(3)">Ash</a>

<h1>Changing background color</h1>

</center>

</body>

</html>

1. **Write a javascript program to check whether a given string is palindrome or not**

<!DOCTYPE html>

<html>

<body>

<center>

<script>

function checkPalindrome()

{

var str=document.getElementById('string').value;

f=1;

const len = str.length;

for (i = 0; i < len / 2; i++)

{

if (str[i] !== str[len - 1 - i])

{

f=0;

}

}

if(f==1)

{

document.write("<P>The string is palindrome</p>");

}

else

{

document.write("<P>The string is not palindrome</p>" );

}

}

</script>

<form>

Enter the text : <input type="text" id="string" /><br>

<input type="submit" value="Check" onClick='checkPalindrome();'>

</form>

</center></body></html>

1. **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.**

<script>

var inputArray = [];

var size = 5; //Maximum Array size

var sum=0;

for(var i=0; i<size; i++) {

//Taking Input from user

inputArray[i] = prompt('Enter Element ' + (i+1));

sum=Number(sum)+Number(inputArray[i]);

}

alert("The sum of the entered number is : "+ sum);

</script>

1. **Change the textcolour and back colour of a TextBox using onfocus and onBlur event**

<!DOCTYPE html>

<html>

<body>

Enter your name: <input type="text" onfocus="myFunction(this)" onblur="myFunction1(this)">

<script>

function myFunction(x) {

x.style.background = "yellow";

x.style.color= "red";

}

function myFunction1(x) {

x.style.background = "blue";

x.style.color= "white";

}

</script>

</body>

</html>

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

<html>

<body>

<script type="text/javascript">

function display()

{

var s=document.getElementById('state').value;

if(s=="Karnataka")

document.getElementById("capital").value = "Bengaluru";

else if(s=="Kerala")

document.getElementById("capital").value = "Thiruvananthapuram";

else if(s=="Tamilnadu")

document.getElementById("capital").value = "Chennai";

}

</script>

Select any state:-

<select name="state" id="state" onchange="display();">

<option value="Karnataka">Karnataka</option>

<option value="Kerala">Kerala</option>

<option value="Tamilnadu">Tamilnadu</option>

</select>

<br/><br/><br/>

The capital is :-

<input type="text" name="capital" id="capital"/>

</body>

</html>

1. **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**

<html>

<body><form>

Email address: <input type="email" name="email" placeholder="Email address">

<br/><br/>

Password: <input type="password" name="password" id="psw" placeholder="Password" onblur="check();"><br/><br/>

Re-Type Password: <input type="password" name="cpassword" id="cpsw" placeholder="Confirm Password" onblur="check1();">

<br/><br/>

<input type="submit" value="Ok" />

</form>

<script>

function check()

{

var myInput = document.getElementById("psw");

if(myInput.value.length < 8)

{

alert("Password must be minimum 8 charactrs");

}

}

function check1()

{

var myInput1 = document.getElementById("psw").value;

var myInput2 = document.getElementById("cpsw").value;

if(myInput1!=myInput2)

{

alert("Password Mismatch Error");

}

}

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

**PHP**

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

<html>

<body>

<form method="post">

Enter the Number:

<input type="number" name="number">

<input type="submit" value="Submit">

</form>

</body> </html>

<?php

if($\_POST)

{

$number = $\_POST['number'];

$a = $number;

$sum = 0;

while( $a != 0 )

{

$rem = $a % 10;

$sum = $sum + ( $rem \* $rem \* $rem );

$a = $a / 10;

}

if( $number == $sum )

{

echo "Yes $number an Armstrong Number";

}else

{

echo "$number is not an Armstrong Number";

}

}

?>

1. **Display the Fibonacci series up to a given number**

<!doctype html>

<html>

<body>

<form method="post">

Enter the Number:

<input type="number" name="number">

<input type="submit" value="Submit">

</form>

</body>

</html>

<?php

if($\_POST)

{

$num = $\_POST['number'];

$n1 = 0;

$n2 = 1;

$n=1;

echo "<h3>Fibonacci series upto $num : </h3>";

echo "\n";

echo $n1.', '.$n2.', ';

while ($n2 < $num)

{

$n3 = $n2 + $n1;

if($n3<=$num)

echo $n3.', ';

$n1 = $n2;

$n2 = $n3;

$n = $n + 1;

}

}

?>

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

<!DOCTYPE HTML>

<html>

<head>

</head>

<body>

<?php

$name = $email = $gender = $comment = $website = "";

if ($\_POST) {

$name = $\_POST["name"];

$email =$\_POST["email"];

$website = $\_POST["website"];

$comment = $\_POST["comment"];

$gender = $\_POST["gender"];

}

?>

<h2>PHP Form Example</h2>

<form method="post" action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]);?>">

Name: <input type="text" name="name"> <br><br>

E-mail: <input type="text" name="email"> <br><br>

Address: <textarea name="comment" rows="5" cols="40"></textarea> <br><br>

Phoneno: <input type="text" name="website"> <br><br>

Gender:

<input type="radio" name="gender" value="female">Female

<input type="radio" name="gender" value="male">Male

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

<input type="submit" name="submit" value="Submit">

</form>

<?php

echo "<h2>Your Input:</h2>";

echo $name;

echo "<br>";

echo $email;

echo "<br>";

echo $website;

echo "<br>";

echo $comment;

echo "<br>";

echo $gender;

?>

</body>

</html>

1. **Write a PHP function to reverse a string**

<?php

function reverseString()

{

$string = "STRESSED";

echo "Reverse string of $string is " ;

$length = strlen($string);

for ($i=($length-1) ; $i >= 0 ; $i--)

{

echo $string[$i];

}

}

reverseString();

?>

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

<html>

<body>

<br>

<h1>Whether a number is Perfect, Abundant or Deficient</h1>

<form method="post">

Enter The Number :<input type="number" name="N"/>

<br>

<center><input type="submit" value="CHECK"/>

</center>

</form>

</body>

</html>

<?php

if($\_POST)

{

$number = $\_POST['N'];

$flag = $number;

$addition=0;

for($i = 1; $i <$number; $i++)

{

$remainder = $number%$i;

if($remainder==0)

{

$addition += $i;

}

}

if($addition == $flag)

{

echo "The $addition number is Perfect";

}

else if($addition > $flag)

{

echo "The $addition number is Abundant";

}

else

{

echo "The $addition number is Deficient";

}

}

?>

1. **Create a login page using database**

<!doctype html>

<html>

<form action="php29.php" method="POST" id="formLogin">

<label>User</label><br/>

<input name="user" type="text" id="user" /><br/>

<label>Password</label><br/>

<input name="pass" type="password" id="password" /><br/><br/>

<input type="submit" name="Submit" value="LOGIN" />

</form>

<body>

</body>

</html>

<?php

$db\_connection = pg\_connect("host=localhost dbname=lab user=postgres password=ncas");

if($\_POST)

{

$u=$\_POST['user'];

$p=$\_POST['pass'];

$result = pg\_query($db\_connection, "SELECT \* FROM login where username='$u' and password='$p'");

if(pg\_num\_rows($result)>0)

{

Echo “Welcome”;

}

else

{

echo "Login failed";

}

}

?>

1. **Write PHP program to store current date/time in a cookie and display the ‘last visited on‘ date time on the web page upon reopening of the same page.**

<!doctype html>

<html>

<body bgcolor="87ceeb">

<center><h2> Last visited time on the web page</h2></center>

<br>

<?php

date\_default\_timezone\_set('Asia/Calcutta');

$inTwoMonths = 60 \* 60 \* 24 \* 60 + time();

setcookie('lastVisit', date("h:i:s - m/d/y"), $inTwoMonths);

if(isset($\_COOKIE['lastVisit']))

{

$visit = $\_COOKIE['lastVisit'];

echo "Your last visit was - ". $visit;

}

else

echo "You've got some stale cookies!";

?>

</body>

</html>

1. **Write an HTML page to display a list of fruits in a list box. Write php program to display the names of the fruits which are selected by the user.**

<!doctype html>

<html>

<?php

$choices= $\_POST['foods'];

if(isset($choices)) {

echo 'You have chosen these fruits

to be in your salad:' . '<br>' . '<br>';

foreach ($choices as $key => $value)

{

echo $value . '<br>';

}

}

else

{

echo "You haven't selected any foods

to be in your salad.";

}

?>

<body>

<form action="" method="post">

<label>What Do You Want In Your Salad?</label><br>

<select name="foods[]" size="3" multiple="multiple">

<option value="Apple">Apple</option>

<option value="Banana">Banana</option>

<option value="Orange">Orange</option>

<option value="Kiwi">Kiwi</option>

</select><br>

<input type="submit" name="submit" value="Submit"/>

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

1. **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.**

<!doctype html>

<html>

<body>

<?php

$scores = array('anu','ginu','hima','jiya','anu','ijas','binu','cija','fijas','diya');

echo "a. Display using foreach loop<br>";

foreach ($scores as $score)

{

echo $score."<br>";

}

echo "<br>b. Display array in sorted order<br>";

sort($scores);

foreach ($scores as $score)

{

echo $score."<br>";

}

echo "<br>c. Display array without duplicate elements<br>";

$result = array\_unique($scores);

print\_r($result);

echo "<br><br>d. Remove the last element and display";

$removed = array\_pop($scores);

echo "<br>Removed array element is: ". $removed;

echo "</br> Update array is: ";

print\_r($scores);

echo "<br><br>e. Display the array in reverse order<br>";

$y = array\_reverse($scores);

print\_r($y);

echo "<br><br>f. Search an element in the given array.<br>";

if (in\_array("anu", $scores)) {

echo "Element Found";

}

else

echo "Element Not Found";

?>

</body>

</html>

1. **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.**

<!doctype html>

<?php

$db\_connection = pg\_connect("host=localhost dbname=lab user=postgres password=ncas");

if($\_POST)

{

$r=$\_POST['rollno'];

$result = pg\_query($db\_connection, "SELECT \* FROM student where rollno='$r'");

if(pg\_num\_rows($result)<1)

{

echo "No records found";

$name= $mark1= $mark2= $total= $avg= $grade='';

}

else

{

$res=pg\_fetch\_array($result);

$name=$res[1];

$mark1=$res[2];

$mark2=$res[3];

$total=$res[4];

$avg=$total/2;

if($avg>=70)

{

$grade='O';

}

else if($avg<70&&$avg>=60)

{

$grade='A';

}

else if($avg<60&&$avg>=50)

{

$grade='B';

}

else

{

$grade='C';

}

}

}

?>

<html>

<body><h5><center>STUDENT MARKLIST</center></h5>

<form method="post" action="php30.php">Enter Rollno<input type="number" name="rollno"/><br/><input type="submit" value="Click"/>

<center><table border=”2″>

<tr><th>rollno</th><th>name</th><th>mark1</th><th>mark2</th><th>total</th><th>avg</th><th>grade</th></tr>

<tr><td><?php echo $r; ?></td><td><?php echo $name; ?></td><td><?php echo $mark1; ?></td><td><?php echo $mark2; ?></td>

<td><?php echo $total; ?></td><td><?php echo $avg; ?></td><td><?php echo $grade; ?></td></tr>

</table>

</center>

</form>

</body>

</html>