

JAVASCRIPT PROGRAMMING

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 =form1.txtRadius.value;
document.write("The area of the circle is " + (radius * radius * Math.PI) + "<br>");
document.write("The circumference of the circle is " + (2 * radius * Math.PI) + "<br>");
}
</script>
<form name=form1>
Enter the radius of circle:
<input type="text" name="txtRadius" size=10>
<br>
<input type="button" value="Calculate" onClick=CalculateArea(>
</form>
</body>
</html>
```


OUTPUT

Enter the radius of circle:

The area of the circle is 78.53981633974483
The circumference of the circle is 31.41592653589793

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

```
<html>
<head>
<script>
function completeNumber()
{
var v,input,count = 0,i;
input = Number(document.getElementById("N").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 DEFICIENT");
}
else if( count>v)
{
alert("Given no is ABUNDANT");
}
}
</script>
</head>
<body>
<br>
<h3>Check whether a number is Perfect || Abundant || Deficient</h3>
Enter The Number :<input type="text" name="n" id = "N"/>
<button onClick=completeNumber()>submit</button>
</body>
</html>
```



OUTPUT

Whether a number is Perfect or deficient or abundant

Enter The Number :

This page says

-The inputed number is Deficient

Whether a number is Perfect or deficient or abundant

Enter The Number :

This page says

-The inputed number is Perfect

Whether a number is Perfect or deficient or abundant

Enter The Number :

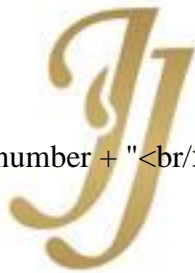
This page says

-The inputed number is Abundant



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

```
<html>
<head>
<title>Multiple Table</title>
</head>
<body>
<form name=form1>
Enter a Number:
<input type="text" name="txtmul" size=10>
<br>
<input type="button" value="Calculate" onClick='printTable()>
</form>
<script language="JavaScript">
function printTable() {
var input =document.form1.txtmul.value;
document.write("Multiple Table of Number "+input+" is<br>");
if(!isNaN(input)) {
var table="";
var number="";
for(i=1;i<=10;i++) {
number = input * i;
table += input + " * " + i + " = " + number + "<br/>";
}
document.write(table);
}
else {
document.write("Please Enter a valid Number");
}
}
</script>
</body>
</html>
```



OUTPUT

Enter a Number:

Multiple Table of Number 5 is

5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50



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 output element to display the results

```
<script language="javascript" type="text/javascript">
function multiply(){
a=Number(document.my_cal.first.value);
b=Number(document.my_cal.second.value);
c=a*b;
document.my_cal.total.value=c;
}
</script>
```

```
<script language="javascript" type="text/javascript">
function addition(){
a=Number(document.my_cal.first.value);
b=Number(document.my_cal.second.value);
c=a+b;
document.my_cal.total.value=c;
}
</script>
```

```
<script language="javascript" type="text/javascript">
function subtraction(){
a=Number(document.my_cal.first.value);
b=Number(document.my_cal.second.value);
c=a-b;
document.my_cal.total.value=c;
}
</script>
```

```
<script language="javascript" type="text/javascript">
function division(){
a=Number(document.my_cal.first.value);
b=Number(document.my_cal.second.value);
c=a/b;
document.my_cal.total.value=c;
}
</script>
```

```
<form name="my_cal">
```

```
Number 1: <input type="text" name="first">
```

```
Number 2: <input type="text" name="second">
```

Get Result: <input type="text" name="total">

```
<input type="button" value="ADD" onclick="javascript:addition();">  
<input type="button" value="SUB" onclick="javascript:subtraction();">  
<input type="button" value="MUL" onclick="javascript:multiply();">  
<input type="button" value="DIV" onclick="javascript:division();">  
</form>
```

OUTPUT

Number 1: Number 2: Get Result:



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

```
<!DOCTYPE html>
<html>
<body>
<center>
<script type="text/javascript">
functionmyArray(n)
{
varbackcolor=["#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>
```

OUTPUT

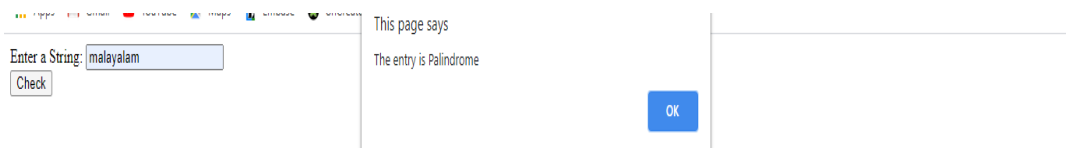


Red Blue Green Ash

Changing background color

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

```
<html>
<body>
<script type="text/javascript">
function checkPalindrome() {
var revStr = "";
var str = document.getElementById("str").value;
var i = str.length;
for (var j = i; j >= 0; j--) {
revStr = revStr + str.charAt(j);
}
if (str == revStr) {
alert("The entry is Palindrome");
} else {
alert("The entry is not a Palindrome");
}
}
</script>
<form>
Enter a String: <input type="text" id="str" name="string" />
<br />
<input type="submit" value="Check" onclick="checkPalindrome();" />
</form>
</body>
</html>
```

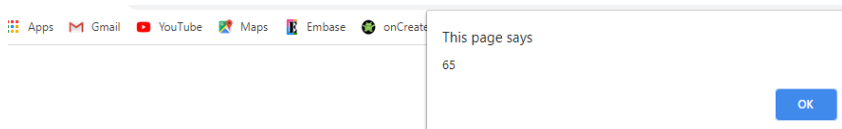
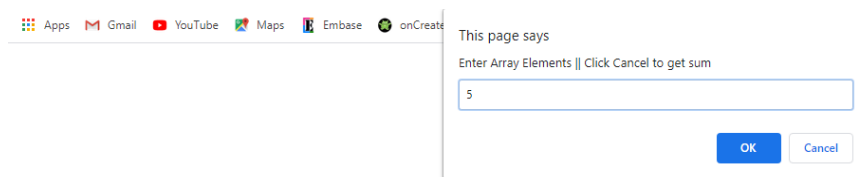
OUTPUT

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>
<script type = "text/javascript">
function sumInput() {
let numbers = [];
while (true) {
let value = prompt("Enter Array Elements || Click Cancel to get sum ", 0);
if (value === "" || value === null || !isFinite(value)) break;
numbers.push(+value);
}
let sum = 0;
for (let number of numbers)
{
sum += number;
}
return sum;
}
alert( "sum= "+sumInput() );
</script>
</head>
</html>
```



OUT PUT



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

```
<html>
<head>
<title></title>
<body>
<style type="text/css">
input[attribute=flag],textarea:focus {
color: red;
background-color: #FFF8DC;//cornsilkcolor
}
input[attribute=flag]:focus, textarea:focus {
color: white;
background-color: green;
}
</style>
<input type="text" attribute=flag onfocus="changeColor('text')"
onblur="removeColor('text')">
</body>
</html>
```

OUT PUT



Red Blue Green Ash

Changing background color

9. 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>
<p><b>Display Capital of a Country using onchange event</b></p>
<p>
Select a Country:
<select id="mySelect" onchange="myFunction()">
  <option value="Please select a Country">Please select a Country
  <option value="Delhi">India
  <option value="New york">America
  <option value="Rome">Italy
  <option value="Muscut">Oman
</select>
<br>
<br>
Capital: <input type="textbox" name="display">
<p id="demo"></p>
<script>
function myFunction() {
  var x = document.getElementById("mySelect").value;
  document.getElementsByName('display')[0].value= x;
}
</script>
</body>
</html>
```

OUT PUT

Display Capital of a Country using onchange event

Select a Country:

Capital:

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

```
<html>
<head>
<title> Validate the Password </title>
</head>
<script>
function validateForm() {
    var pw1 = document.getElementById("pswd1").value;
    var pw2 = document.getElementById("pswd2").value;
    var name1 = document.getElementById("fname").value;
    var name2 = document.getElementById("lname").value;

    if(name1 == "") {
        document.getElementById("blankMsg").innerHTML = "***Fill the first name";
        return false;
    }

    if(!isNaN(name1)){
        document.getElementById("blankMsg").innerHTML = "***Only characters are allowed";
        return false;
    }

    if(!isNaN(name2)){
        document.getElementById("charMsg").innerHTML = "***Only characters are allowed";
        return false;
    }

    if(pw1 == "") {
        document.getElementById("message1").innerHTML = "***Fill the password please!";
        return false;
    }

    if(pw2 == "") {
        document.getElementById("message2").innerHTML = "***Enter the password please!";
        return false;
    }

    if(pw1.length < 8) {
        document.getElementById("message1").innerHTML = "***Password length must be atleast 8
characters";
        return false;
    }
}
```

```
if(pw1.length > 15) {
    document.getElementById("message1").innerHTML = "***Password length must not exceed 15
characters";
    return false;
}

if(pw1 != pw2) {
    document.getElementById("message2").innerHTML = "***Passwords are not same";
    return false;
} else {
    alert ("Your password created successfully");
    document.write("JavaScript form has been submitted successfully");
}
}
</script>
<body>
<h1 style="color:green">Yuvakshetra College</h1>
<h3> Password validation </h3>

<form onsubmit="return validateForm()">
    <td> Full Name* </td>
    <input type = "text" id = "fname" value = "">
    <span id = "blankMsg" style="color:red"> </span> <br><br>

    <td> Last Name </td>
    <input type = "text" id = "lname" value = "">
    <span id = "charMsg" style="color:red"> </span> <br><br>

    <td> Create Password* </td>
    <input type = "password" id = "pswd1" value = "">
    <span id = "message1" style="color:red"> </span> <br><br>

    <td> Confirm Password* </td>
    <input type = "password" id = "pswd2" value = "">
    <span id = "message2" style="color:red"> </span> <br><br>

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

    <button type = "reset" value = "Reset" >Reset</button>
</form>
</body>
</html>
```

OUT PUT

Yuvakshetra College

Password validation

Full Name*

Last Name

Create Password*

Confirm Password*



PHP PROGRAMS

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

```
<html>
<body>
<h2>ENTER THE NUM</h2><br>
<form action = "" method = "POST">
<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; //find reminder
$sum=$sum+($rem*$rem*$rem);
$temp=$temp/10;
}
if($number==$sum)

echo "AMSTRONG NUMBER";
else
echo "NOT AN AMSTRONG NUMBER";
}
?>
```



12)Display the Fibonacci series up to a given number.

```
<html>
<body>
<h2>enter number </h2><br>
<form action = "" method="POST">
<input type="text" name="number"/>
<input type="submit"/>
</form>
</body>
</html>
<?php if($_POST)
{
$first_variable=-1;
$second_variable=1;
$n=$_POST['number']; for($i=1;$i<=$n;$i++)
{
$current_variable=$first_variable+$second_variable;
$first_variable=$second_variable;
$second_variable=$current_variable;

echo $current_variable."<br/>";
}
}
?>
```



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

```
</html>
<html>
<body>
<form action="" method="POST">
<H1><center>BIO-DATA</center>
</h1> Name:<input type="text" name="name1"><br>
Address:<textarea name="address1"> </textarea><br>
Age:<input type="text" name="age1"><br>
Mobile:<input type="text" name="mobile1"><br>
Email:<input type="text" name="email1"><br>
Qualification:<input type="text" name="qualification1"><br>
<input type="submit" value="Display "><br>
</form>
</body>
</html>

<?php if($_POST)

{
echo "<h1><center>BIO-DATA</center></h1>";
echo "Name: ".$_POST["name1"]."<br>";
echo "Address: ".$_POST["address1"]."<br>";
echo "Age: ".$_POST["age1"]."<br>";
echo "Mobile ".$_POST["mobile1"]."<br>";
echo "Email ".$_POST["email1"]."<br>";
echo "Qualification ".$_POST["qualification1"]."<br>";
}
?>
```

14) PHP program to Reverse a String

```
<?php
function Reverse($str)
{
    $len = strlen($str); if($len == 1){
    return $str;
    }
    else{
    $len--;
    return Reverse(substr($str,1, $len)). substr($str, 0, 1);
    }
}

$str = "College"; print_r(Reverse($str));
?>
```



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

```
<html>
<body>
<h2 >Enter the Number</h2 ><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";
}
?>
```



16. Create a login page using database.

```
<html>
<head>
  <title>login</title>
  <style type="text/css"> input
  {

padding:10px;
border-top:none;
  border-left:none;
border-right:none;
margin:10px;
font-weight:bold;
font-size:16px;
  }

</style>
</head>
<body>
<center>
<form action="" method="POST">
<field set style="width:50%;margin-top::50px";>
<h4>login to continue</h4>
<input type="text" name="uname" maxlength="20" placeholder="username">
<br>
<input type="text" name="password" maxlength="20" placeholder="password">
<br>
<input type="submit" name="submit" value="login">
<input type="reset">
</fieldset>
</form>
</center>
</body>
</html>
<?php

$con=mysql_connect("localhost","root","")or die("error".mysql_error($con));
mysql_select_db("log");
if(isset($_POST['submit']))

{
$username=$_POST['uname'];
$password=$_POST['password'];
$sql="select * from users where username='$uname' AND password='$password'";
$res=mysql_query($sql) or die (mysql_error($con));
```

```
$val=mysql_num_rows($res); if($val>0)
{
echo("<script>alert('login success')</script>");
}
else
{
echo("<script>alert('failed')</script>");
}
}

?>
```

Database code

```
Create database log;
Use log;
Create table users(username varchar(10),password varchar(10));
Insert into users values("yims","123");
```



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



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

Fruit.html

```
<html>
<body bgcolor="red"
<h1><u>FRUITS</u></h1>
<form name="f1" method="GET" action = "selected.php">
<font color= "yellow" size="7"> select fruits</font>
<select name="s1[]" multiple = "multiple">
<option>APPLE</option>
<option>APPLE2</option>
<option>APPLE3</option>
<option>APPLE4</option>
<option>APPLE5</option>
<option>APPLE6</option>
<option>APPLE7</option>
</select>
<input type ="submit" value = "OK">
</form>
</body>
</html>
```



Selected.php

```
<html>
<body bgcolor="cyan">
<h1>SELECTED FRUITS ARE:</h1>
<?php
$a=$_GET["s1"];
if(isset($a))
{
foreach($a as $b) echo($b."<br>");
}
?>
</body>
</html>
```


19. Write a PHP program to create an array and store 10 names in the array and 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>
<center><b><u>ARRAY ELEMENTS</u></b></center>
<?php
$a=array('sai','vinu','ashly','lena','anu','anu','vinu','manu','manu','anju');
?>
<u>DISPLAYING ARRAY ELEMENTS</u>
<?php
foreach($a as $names)
{
echo"<br>"; echo"$names";
}
reset($a); print("<br>");
?>
<u>SORTED ARRAY</u>
<?php
$c=sort($a); foreach($a as $c)
{
print("<br>");
print("$c");
}
print("<br>");
?>

<u>REMOVING DUPLICATE ELEMENTS</u>
<?php
$dup=array_unique($a); foreach($dup as $nem)
{
print("<br>");
print("$nem");
}
print("<br>");
?>
<u>ARRAY IN REVERSE ORDER</u>
<?php print("<br>");
$rev=rsort($a); foreach($a as $rev)
{
print("$rev");
print("<br>");
}
```



```
}  
?>  
<u>REMOVING LAST ELEMENT<u>  
<?php print("<br>"); array_pop($a); foreach($a as $b)  
  
{  
print("$b");  
print("<br>");  
}  
?>  
</html>
```



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>STUDENT DETAILS</title>
</head>
<body>
<center>
<fieldset style = "margin-top:50px;
width:50%;
padding : 20px;">
<form action=" " method="POST">
<input type="text" name="regno" maxlength="2" placeholder = "Enter RollNumber"><br>
<input type="submit" value = "Show DEtails" name="submit">
</center>
</form>
</fieldset>
</body>
</html>
<?php if(isset($_POST['submit']))
{
$рно=$_POST['regno'];

mysql_connect('localhost','root',''); mysql_select_db("db");
$sql="select * from student where roll_no='$рно'";
$res=mysql_query($sql);
$c=mysql_num_rows($res); if($c=0)
{
echo "plz provide a valid roll no";
}
else
{
while($val=mysql_fetch_array($res))
{
echo "<center><b4>Student Details</b4>
<table border = 1>
<tr>
<th> Roll Number</th>
<th> Name of the student</th>
<th> Total marks</th>
<th> Grade</th></tr>
<tr>";
echo "<td>".$val['roll_no']. "</td>";
echo "<td>".$val['name']. "</td>";
```

```
echo"<td>".$val['mark']. "</td>";  
echo"<td>".$val['grade']. "</td>"; echo "</tr>";  
echo "</table>"; echo "</center>";  
}  
}  
}  
  
?>
```

Database Code:

Create database db;

Use db;

```
CREATE table student(roll_no int(3) not null auto_increment,name varchar(20) not null, mark int(3)  
not null, grade varchar(1) not null, primary key(roll_no));
```

Insert into

```
student(roll_no,name,mark,grade)values(("1","ANU","99","A"),("2","MANU","80","B"),("3","ANJ  
U","70","C"));
```