

WEB PROGRAMMING LAB (CA-C25L)

1) Create a form with the elements of Textboxes, Radio buttons, Checkboxes, and so on. Write JavaScript code to validate the format in email, and mobile number in 10 characters, If a textbox has been left empty, popup an alert indicating when email, mobile number and textbox has been left empty.

Ans:-<!DOCTYPE html>

<html>

<head>

<title>Form Validation</title>

</head>

<body>

<form id="myForm">

<label for="name">Name:</label>

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

<label for="email">Email:</label>

<input type="text" id="email" name="email">

<label for="mobile">Mobile Number:</label>

<input type="text" id="mobile" name="mobile">

<label>Gender:</label>

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

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

<label>Hobbies:</label>

<input type="checkbox" id="reading" name="hobbies" value="Reading">Reading

<input type="checkbox" id="traveling" name="hobbies" value="Traveling">Traveling

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

</form>

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```
<script>

document.getElementById("myForm").addEventListener("submit", function(event) {

event.preventDefault();


    // Validation for email format

    var email = document.getElementById("email").value;

    var emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;


    // Validation for mobile number length (assuming 10 characters)

    var mobile = document.getElementById("mobile").value;


    // Check if any required field is left empty

    var name = document.getElementById("name").value;


    if (name === "" || email === "" || mobile === "") {

alert("Please fill in all required fields.");

        } else if (!emailPattern.test(email)) {

alert("Invalid email format. Please enter a valid email address.");

        } else if (mobile.length !== 10 || isNaN(mobile)) {

alert("Mobile number should be 10 digits numeric.");

        } else {

            // Form is valid, you can submit it or perform further actions here

alert("Form submitted successfully!");

        }

    });

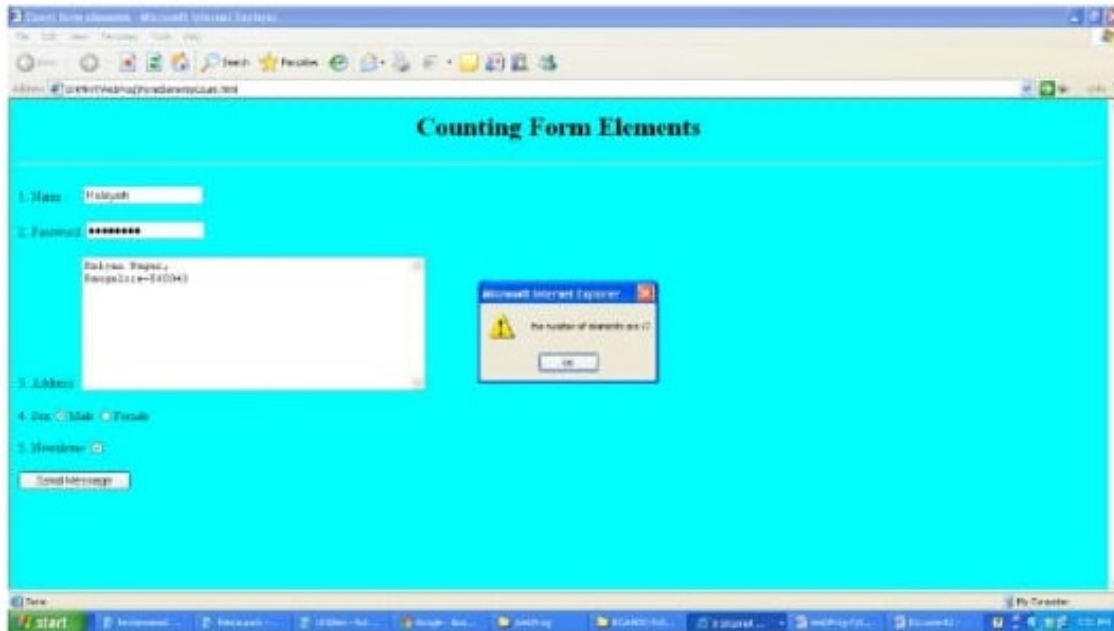
</script>

</body>

</html>
```

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OUTPUT: -



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2). Develop an HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluate the expression and Display the result.

Ans: -<!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>Again</title>

</head>

<body>

<input type="number" id="col1">

<select id="col2">

<option value="+">+</option>

<option value="-">-</option>

<option value="*">*</option>

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

</select>

<input type="number" id="col3">

<button onclick="cal()">Calculate</button>

<input type="" readonly id="res">

</body>

<script>

function cal()

{

var opt1= document.getElementById("col1").value;

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```
var opt2= document.getElementById("col3").value;
var check= document.getElementById("col2").value;
if(check=="+")
{
    var res=parseInt(opt1)+parseInt(opt2);
}

if(check=="-")
{
    var res=parseInt(opt1)-parseInt(opt2);
}

if(check=="*")
{
    var res=parseInt(opt1)*parseInt(opt2);
}

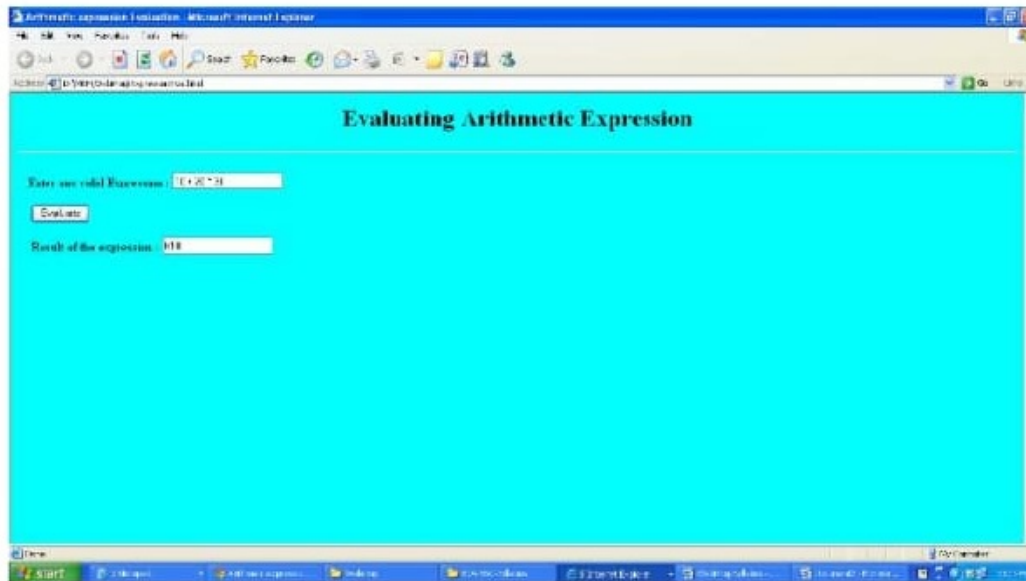
if(check=="/")
{
    var res=parseInt(opt1)/parseInt(opt2);
}

document.getElementById("res").value=res;
}

</script>
</html>
```

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OutPut: -



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3) Create a page with dynamic effects. Write the code to include layers and basic animation.

Ans:-

```
<html>

<head>

<title> Basic Animation </title>

<style>

#layer1 {position:absolute;top:50px;left:50px;}

#layer2 {position:absolute;top:50px;left:50px;}

#layer3 {position:absolute; top:50px;left:50px;}

</style>


<script type="text/javascript">

function moveImage(layer)

{

var top=window.prompt("Enter Top value"); var left=window.prompt("Enter Left Value");
document.getElementById(layer).style.top=top+'px'; document.getElementById(layer).style.left=left+'px';

}

</script>


<head>

<body bgcolor="darkblue" text="white">


<div id="layer1"><imgsrc="C:\Users\MBL\Desktop\Paapu.jpg" onclick="moveImage('layer1')"
alt="MyImage"></div>


<div id="layer2"><imgsrc="C:\Users\MBL\Downloads\mm.jpg" onclick="moveImage('layer2')"
alt="MyImage"></div>
```

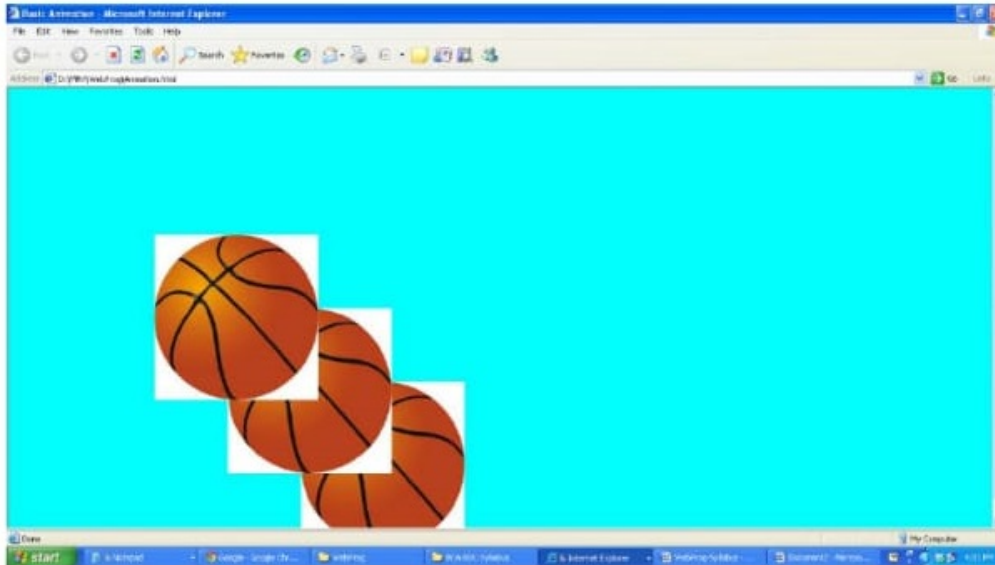
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```
<div id="layer3"><imgsrc="C:\Users\MBL\Downloads\nn.jpg" onclick="moveImage('layer3')"  
alt="MyImage"></div>
```

```
</body>
```

```
</html>
```

Output: -



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4) Write a JavaScript code to find the sum of N natural Numbers. (Use user- defined function)?

Ans:-<html>

<head>

<title>Sum of Natural Numbers</title>

<script type="text/javascript">

function sum(){

var num=window.prompt("Enter the value of N")

var n=parseInt(num);

var sum=(n*(n+1))/2;

window.alert("Sum of First "+n+" Natural Numbers is:"+sum);

}

</script>

</head>

<body bgcolor="darkblue" text="white">

<h1 align="center"> Sum of Natural Numbers </h1>

<hr>

<center><form>

<input type="button" value="Find Sum of Natural Numbers" onclick="sum()"/>

</form>

</center>

</body>

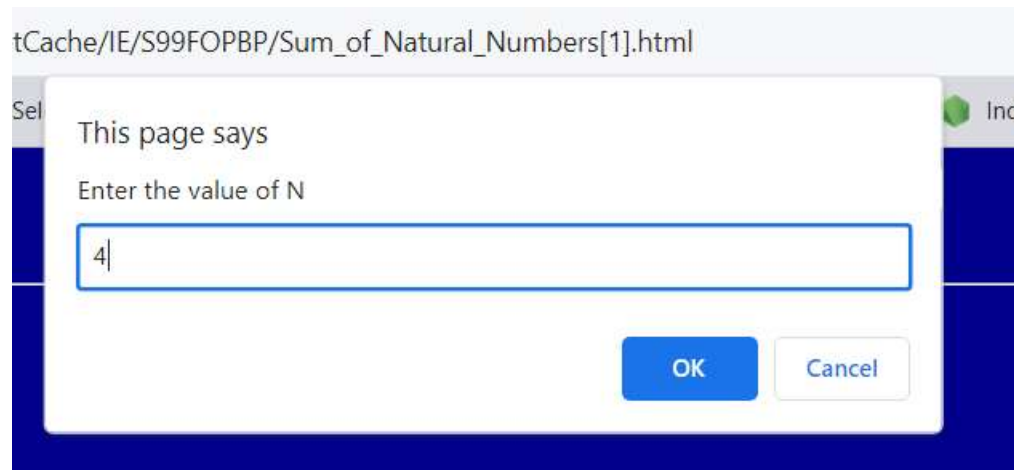
</html>

Output: -

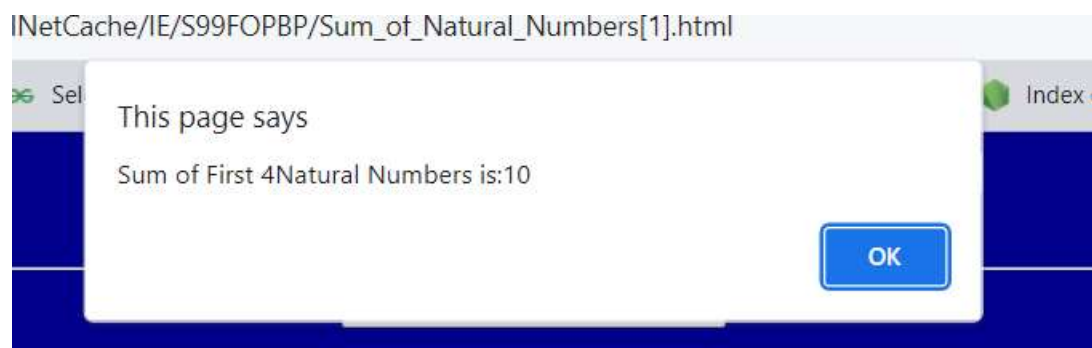
step-1



Step-2



Step-3



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5). Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.

Ans :-<head>

<title>Date Display</title>

<script type="text/javascript">

var days=["First","second","third","fourth","fifth","sixth","seventh","Eighth","Ninth","Tenth",

"Eleventh","Twelfth","Thirteenth","Fourteenth","Fifteenth","Sixteenth","Seventeenth","Eighteenth","Nineteenth","Twentyeth",

"TwentyFirst","TwentySecond","TwentyThird","TwentyFourth","TwentyFifth",
"TwentySixth","TwentySeventh","TwentyEighth","TwentyNinth","Thirtyeth","ThirtyFirst"];

var months=["January","February","March","April","May","June","july","August","September",
"October","November","December"];

var year ="Two Thousand Twenty Three";

var dateObj=new Date();

var currMonth=dateObj.getMonth();

var currDate=dateObj.getDate();

var currYear=dateObj.getFullYear();

if(currYear=2020)

alert("Today's Date is:"+days[currDate-1]+" "+months[currMonth]+" "+year);

else

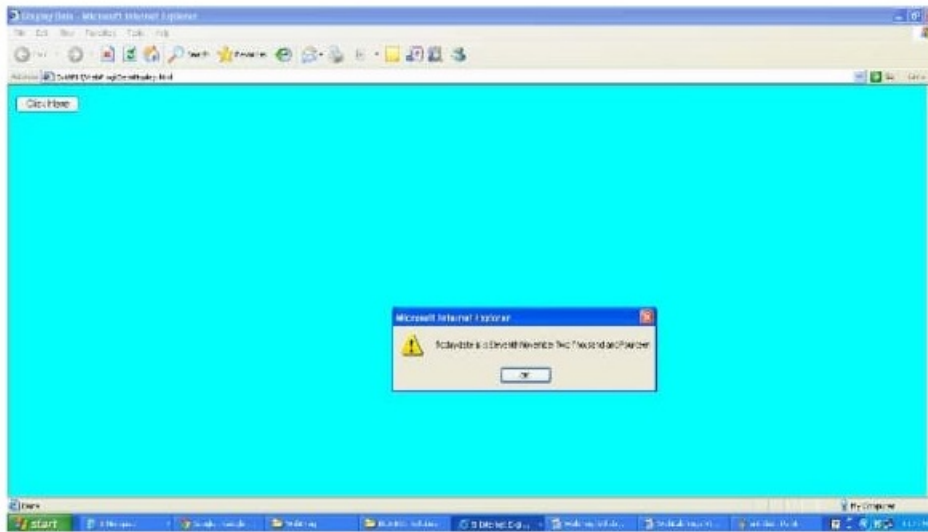
alert("Today's Date is:"+days[currDate-1]+" "+months[currMonth]+" "+currYear);

</script>

</head>

</html>

Output: -



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6) Create a form for Student information. Write JavaScript code to find Total, Average, Result and Grade.

Ans:-<html>

<head>

<title>Student Data Example</title>

<script type="text/javascript">

function showResults()

{

var name=document.getElementById("name").value;

var cls=document.getElementById("class").value;

var marks1=parseInt(document.getElementById("sub1").value);

var marks2=parseInt(document.getElementById("sub2").value);

var marks3=parseInt(document.getElementById("sub3").value);

var total=marks1+marks2+marks3; var avg=total/3;

var grade,result;

if(marks1>=40 && marks2>=40 &&marks3>=40)

{

if(avg>=75){

grade="A+";

result="Distinction"

}

else if(avg<75 &&avg>=60){

grade="A";

result="First Class"

}

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

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```
grade="B";

result="Second Class"

}

else{

grade="C";

result="Third class";

}

}

else

{

grade="D";

result="Fail";

}

document.write("<h2>Results</h2>");

document.write("<b> NAME      :"+name+"</b><br/><br/>");

document.write("<b> CLASS :"+cls+"</b><br/><br/>");

document.write("<b> TOTAL MARKS :"+total+"</b><br/><br/>");

document.write("<b> AVERAGE :"+avg+"</b><br/><br/>");

document.write("<b> GRADE :"+grade+"</b><br/><br/>");

document.write("<b> RESULT :"+result+"</b><br/><br/>");

}

</script>

</head>

<body bgcolor="darkblue" text="white">

<form>

<table border="10">

<tr>
```

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```
<td colspan="2" align="center">Student Details</td></tr>

<tr>

<td>Student Name:</td>

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

</tr>

<tr>

<td>Class:</td>

<td><input type="text" id="class"/></td>

</tr>

<tr>

<td>Subject1 Marks:</td>

<td><input type="text" id="sub1"/></td>

</tr>

<tr>

<td>Subject2 Marks:</td>

<td><input type="text" id="sub2"/></td>

</tr>

<tr>

<td>Subject3 Marks:</td>

<td><input type="text" id="sub3"/></td>

</tr>

</table>

<br/><input type="button" value="View Results" onclick="showResults()"/></form>

</body>

</html>
```

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Output: -

The screenshot shows a Microsoft Internet Explorer window titled "Student Marks Report". The address bar displays "D:\Program Files\WebProd\StudentMarksReport.html". The page content is divided into two main sections: a form on the left and a report on the right.

Student Data Form

Student Name	Yaseen Aman
Class	BCA
Subject1 Marks	100
Subject2 Marks	95
Subject3 Marks	90

Below the form is a button labeled "ShowResult".

Student Marks Report

Name : Yaseen Aman
Class : BCA
Total Marks : 285
Average : 95
Grade : A
Result : First Class

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7) Create a form for Employee information. Write JavaScript code to find DA, HRA, PF, TAX, Gross pay, Deduction and Net pay.

Ans:-<html>

<head>

<title>EMPLOYEE SALARY DETAILS</title>

<script type="text/javascript">

function showSalary(){

var empname=document.getElementById("empname").value; var
empno=document.getElementById("empno").value;

var basic=parseInt(document.getElementById("basic").value);

//hra is 40% of basic

var hra=basic*0.4;

//da is 60% of basic

var da=basic*0.6;

var gross=basic+hra+da;

//pf is 13% of gross

var pf=gross*0.13;

//tax is 20% of gross

var tax=gross*0.2;

var deductions=pf+tax;

var netsalary=gross-deductions;

document.write("<table border='5' bgcolor='lightgreen' >"); document.write("<tr><td colspan='2' align='center'>Employee Salary Breakup

Details</td></tr>");

document.writeln("<tr><td>Emp Name:</td><td>"+empname+"</td></tr>");

document.writeln("<tr><td>Emp No:</td><td>"+empno+"</td></tr>"); document.writeln("<tr><td>Basic Salary:</td><td>"+basic+"</td></tr>"); document.writeln("<tr><td>HRA (40% of

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```
Basic):</td><td>"+hra+"</td></tr>"); document.writeln("<tr><td>DA (60% of
Basic):</td><td>"+da+"</td></tr>"); document.writeln("<tr><td>Gross
Salary:</td><td>"+gross+"</td></tr>"); document.writeln("<tr><td>PF (13% of
Basic):</td><td>"+pf+"</td></tr>"); document.writeln("<tr><td>Tax (20% of
Basic):</td><td>"+tax+"</td></tr>"); document.writeln("<tr><td>Deductions
(PF+TAX):</td><td>"+deductions+"</td></tr>"); document.writeln("<tr><td><b>Net Salary(Gross-
Deductions):</b></td>"); document.writeln("<td><b>"+netsalary+"</b></td></tr>");
document.writeln("</table>");
```

```
}
```

```
</script>
```

```
</head>
```

```
<body bgcolor="darkblue" text="white">
```

```
<form>
```

```
<table border="5">
```

```
<tr><td colspan="2" align="center">EMPLOYEE DETAILS</td></tr><tr>
```

```
<td>Employee Name:</td>
```

```
<td><input type="text" id="empname"/></td>
```

```
</tr>
```

```
<tr>
```

```
<td>Employee Number:</td>
```

```
<td><input type="text" id="empno"/></td>
```

```
</tr>
```

```
<tr>
```

```
<td>Basic Pay:</td>
```

```
<td><input type="text" id="basic"/></td>
```

```
</tr>
```

```
</table>
```

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```
<br/><input type="button" value="Show Salary Details" onClick="showSalary()"/></form>
```

```
</body>
```

```
</html>
```

Output:-

The screenshot shows a Microsoft Internet Explorer window titled "Employee Salary Report - Microsoft Internet Explorer". The address bar displays "D:\MRH\WebProg\EmployeeSalaryForm.html". The page content is divided into two main sections: an "Employee Salary Form" on the left and an "Employee Salary Report" on the right.

Employee Salary Form

Employee Name :	Hidayathulla
Employee Number :	1234
Basic Pay :	50000

Below the form is a button labeled "Show Salary".

Employee Salary Report

Employee Name:	Hidayathulla
Emp No :	1234
Basic Salary :	50000
HRA (40 % of basic)	20000
DA (60 % of basic)	30000
Gross salary :	100000
PF (13% of the basic)	13000
Tax (20% of the gross) :	20000
Deductions (PF + Tax)	33000
Net Salary (Gross - Deductions) :	67000

8) Write a program in PHP to change background color based on day of the week using if else if statements and using arrays.

```
<?php
$today=date("l");
$bg_color_array = array('blue','black','red','pink','gray','yellow','green');

if($today == "Sunday") $bg_color = $bg_color_array[0];
elseif($today == "Monday") $bg_color = $bg_color_array[1];
elseif($today == "Tuesday") $bg_color = $bg_color_array[2];
elseif($today == "Wednesday") $bg_color = $bg_color_array[3];
elseif($today == "Thursday") $bg_color = $bg_color_array[1];
elseif($today == "Friday") $bg_color = $bg_color_array[2];
elseif($today == "Saturday") $bg_color = $bg_color_array[3];

echo "<body bgcolor=$bg_color>Welcome to my Homepage</body>";
?>
```

Output:

A screenshot of a web browser displaying the output of the PHP program. The text "Welcome to my Homepage" is centered at the top of the page in a dark, serif font. The rest of the page has a solid red background.

Welcome to my Homepage

9) Write a simple program in PHP for
i) generating Prime number

```
<?php

$num=10;

for($n=1;$n<=$num;$n++)
{
    $flag=true;
    if($n<=1) $flag=false;
    for($i=2;$i<=$n/2;$i++)
    {
        if(($n%$i)==0)
        {
            $flag=false;
            break;
        }
    }
    if($flag) echo $n."\n";
}
?>
```

Output:

Prime Numbers are: 2357

ii) generate Fibonacci series.

```
<?php

$num=10;
$a=0;
$b=1;

for($i=1;$i<=$num;$i++)
{
    echo $a."\n";
    $c=$a+$b;
    $a=$b;
    $b=$c;
}
?>
```

Output:

Fibonacci Series are:0 1 1 2 3 5 8 13 21 34

10) Write a PHP program to remove duplicates from a sorted list

```
<?php
header('Content-type:text:plain');
$numns=array(10,10,20,30,30,40,50);
print_r($numns);
echo "\nAfer removing duplicates\n";
$numns_unique=array_unique($numns);
print_r($numns_unique);
?>
```

Output:

```
Array
(
    [0] => 10
    [1] => 10
    [2] => 20
    [3] => 30
    [4] => 30
    [5] => 40
    [6] => 50
)

Afer removing duplicates
Array
(
    [0] => 10
    [2] => 20
    [3] => 30
    [5] => 40
    [6] => 50
)
```

11) Write a PHP Script to print the following pattern on the Screen:

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

```
<?php
header('Content-type:text:plain');
$n=5;
$stars=7;
$space=0;

for($i=1;$i<=$n;$i++)
{
    for($j=0;$j<$space;$j++) echo" ";
    for($j=1;$j<=$stars;$j++) echo"*";
    $stars-=2;
    $space++;
    echo "\n";
}
?>
```

Output:

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


12) Write a simple program in PHP for Searching of data by different criteria

```
<?php

// Sample data array
$data = array(
    array('name' => 'Ram', 'age' => 25, 'city' => 'Ayodhya'),
    array('name' => 'Krishna', 'age' => 30, 'city' => 'Mathura'),
    array('name' => 'Radha', 'age' => 28, 'city' => 'Barsana'),
    array('name' => 'Seetha', 'age' => 28, 'city' => 'Janakpur')
);

// Function to search data by a specific criteria
function searchData($data, $criteria, $searchValue) {
    $results = array();
    foreach ($data as $item) {
        if ($item[$criteria] == $searchValue) {
            $results[] = $item;
        }
    }
    return $results;
}

// searching by name
$searchByName = searchData($data, 'name', 'Ram');
print_r($searchByName);
echo "<br>";

// searching by age
$searchByAge = searchData($data, 'age', 28);
print_r($searchByAge);
echo "<br>";

// searching by city
$searchByCity = searchData($data, 'city', 'Mathura');
print_r($searchByCity);
?>
```

Output:

```
Array ( [0] => Array ( [name] => Ram [age] => 25 [city] => Ayodhya ) )
Array ( [0] => Array ( [name] => Radha [age] => 28 [city] => Barsana ) [1] => Array ( [name] => Seetha [age] => 28 [city] => Janakpur ) )
Array ( [0] => Array ( [name] => Krishna [age] => 30 [city] => Mathura ) )
```

13) Write a function in PHP to generate captcha code

```
<?php
function generateCaptcha($length = 6) {
    $characters = '0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ';
    $captcha = '';
    $charactersLength = strlen($characters);

    for ($i = 0; $i < $length; $i++) {
        $captcha .= $characters[rand(0, $charactersLength - 1)];
    }

    return $captcha;
}

// Example usage:
$captcha = generateCaptcha();
echo "Generated CAPTCHA: " . $captcha;
?>
```

Output:

Generated CAPTCHA: SuRIv0

14) Write a Program to store and read image from Database.

SaveImage.php:

```
<?php

// create connection
$conn=new mysqli("localhost","root","","prg16");

// check connection
if($conn->connect_error) die("Connection failed: ".$conn->connect_error);

// Get the image content
$image =addslashes(file_get_contents('night.jpg'));

// query to insert
$sql = "INSERT INTO imagedemo (image) VALUES ('$image')";

if ($conn->query($sql) === TRUE) echo "New record created successfully";
else echo "Error: " . $sql . "<br>" . $conn->error;


$conn->close();
?>
```

Output:

New record created successfully

Read Image.php:

```
<?php

// create connection
$conn=new mysqli("localhost","root","","prg16");

// check connection
```

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```
if($conn->connect_error) die("Connection failed: ".$conn->connect_error);

// Get the image content
$image = addslashes(file_get_contents('texture.jpg'));

// query to insert
$sql = "SELECT image FROM imagedemo";

$result=$conn->query($sql);

if ($result->num_rows > 0) {
    // Output data of each row
    while ($row = $result->fetch_assoc()) {
        // Display the image
        echo '';
        echo "<br><br>";
    }
} else {
    echo "0 results";
}

$conn->close();
?>
```

Output:



16) Write a program in PHP to add, update and delete using student database.

Add.php

```
<?php

// create connection
$conn=new mysqli("localhost","root","","prg16");

// check connection
if($conn->connect_error) die("Connection failed: ".$conn->connect_error);

// query to insert
$sql = "INSERT INTO student (id,name,age,gender) VALUES (101, 'Ram',21,'Male')";

if ($conn->query($sql) === TRUE) echo "New record created successfully";
else echo "Error: " . $sql . "<br>" . $conn->error;

$conn->close();
?>
```

Output:

New record created successfully

Update.php

```
<?php

// create connection
$conn=new mysqli("localhost","root","","prg16");

// check connection
if($conn->connect_error) die("Connection failed: ".$conn->connect_error);

// query to update
$sql = "UPDATE student SET age=22 WHERE id=101";
```

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```
if ($conn->query($sql) === TRUE) echo "Record updated successfully";  
else echo "Error updating record: ". $conn->error;
```

```
$conn->close();  
?>
```

Output:

Record updated successfully

Delete.php

```
<?php
```

```
// create connection  
$conn=new mysqli("localhost","root","","prg16");  
  
// check connection  
if($conn->connect_error) die("Connection failed: ".$conn->connect_error);  
  
// query to delete  
$sql = "DELETE FROM student WHERE id=101";  
if ($conn->query($sql) === TRUE) echo "Record deleted successfully";  
else echo "Error deleting record: ". $conn->error;  
  
$conn->close();  
?>
```

Output:

Record deleted successfully

17) Write a program in PHP to Validate Input

```
<?php
session_start();
?>

<!DOCTYPE html>
<html>
<head>
<title>Add Data</title>
</head>
<body>
<form action="validate.php" method="post">
    Name: <input type="text" name="name"><br>
    Email: <input type="text" name="email"><br>
    Mob: <input type="number" name="mob"><br>
    <input type="submit" name="submit" value="Submit"/></br></br>
</form>
</body>
</html>

<?php
if(isset($_POST['submit'])){
    $name=$_POST['name'];
    $email=$_POST['email'];
    $mob=$_POST['mob'];

    if(empty($name) || empty($email) || empty($mob)){
        echo "<script> alert('Please Fill all the fields')</script>";
        exit();
    }

    if (!(filter_var($email, FILTER_VALIDATE_EMAIL)))
    {
        echo "Invalid email address";
        exit();
    }
    if (strlen($mob) != 10)
    {
        echo "Invalid phone number!";
        exit();
    }
}
```

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```
echo "<b><u>Entered Details:</u></b></br>";  
echo "$name </br>";  
echo "$email </br>";  
echo "$mob";  
  
}  
?>
```

Output:

Name:
Email:
Mob:

localhost says
Please Fill all the fields

Name:
Email:
Mob:

Invalid email address

Name:
Email:
Mob:

Invalid phone number!

Name:
Email:
Mob:

Entered Details:

Ram
darsja@gmail.com
1234567890

18) Write a program in PHP for setting and retrieving a cookie

```
<?php
// Setting a cookie
$cookie_name = "user";
$cookie_value = "John Doe";
setcookie($cookie_name, $cookie_value, time() + (86400 * 30)); // Cookie set for 30 days

// Retrieving a cookie
if(isset($_COOKIE[$cookie_name])) {
    echo "Cookie '" . $cookie_name . "' has a value: " . $_COOKIE[$cookie_name];
} else {
    echo "Cookie named '" . $cookie_name . "' is not set!";
}
?>
```

Output:

Cookie 'user' has a value: John Doe

**20) Write a program in PHP for exception handling for
i) divide by zero**

```
<?php

class DivideByZeroException extends Exception
{
}

$a=6;
$b=0;

try
{
    if($b==0) throw new DivideByZeroException("Division by Zero");
    $c=$a/$b;
    printf("Value of c: %d<br>", $c);
}
catch(DivideByZeroException $e)
{
    printf("Exception: %s", $e->getMessage());
}

?>
```

Output:

Exception: Division by Zero

ii) checking date format.

```
<?php

$dateString = "2023-11-17";
try {
    $date = new DateTime($dateString);
    echo "Valid date format: " . $date->format('Y-m-d');
} catch (Exception $e) {
    echo "Invalid date format: " . $e->getMessage();
}
?>
```

Output:

Invalid date format: DateTime::__construct(): Failed to parse time string (2023-17-11) at position 6 (7): Unexpected character

s