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➤ Programming: Design a web page

A. Use of document structure tag

```
<html>
```

```
  <head>
```

```
    <title> Home Page </title>
```

```
  </head>
```

```
  <body>
```

```
    <h1> Company Name </h1>
```

```
    <p> This is my first page in html </p>
```

```
    <p> This is an example of a paragraph </p>
```

```
  </body>
```

```
</html>
```

B. Various Text formatting tags

```
<html>
```

```
  <title> Text Formatting Tags </title>
```

```
  <h1> Formatting </h1>
```

```
  <body>
```

```
    <p> This is a new paragraph </p>
```

```
    <p><b> This is a new paragraph </b>
```

```
    <br><b><i> This is a new sentence without a paragraph
```

```
      break </i></b> <hr>
```

```
    <p><u> My First Page </u></p>
```

```
  </body>
```

```
</html>
```

OUTPUT - A

Company Name

This is my first page in html

This is an example of a paragraph

OUTPUT - B

Formatting

This is a new paragraph

This is a new paragraph

This is a new sentence without a paragraph break

My-First-Page

<html><head><title>My First Page</title></head>

<body>

<h1>

My First Page

</h1>

<h2>My First Paragraph</h2>

<h3>My First Sub-Paragraph</h3>

<p>

This is my first paragraph.

</p></h3></h2>

For example modified code will be like this <h1><h2><h3>

<h1> My First Page </h1>

<h2> My First Paragraph </h2>

<h3>

<h3>

C. List tags

```
<!DOCTYPE html>
<html>
<head>
    <title> List Item </title>
</head>
<body>
    <p> An ordered list: </p>
    <ol type = "2">
        <li> HTML </li>
        <li> CSS </li>
        <li> PHP </li>
    </ol>
    <p> An unordered list: </p>
    <ul>
        <li> HTML </li>
        <li> CSS </li>
        <li> PHP </li>
    </ul>
</body>
</html>
```

OUTPUT - C

An ordered list:

1. HTML
2. CSS
3. PHP

An unordered list:

- HTML
- CSS
- PHP

① i) Image and Image Maps

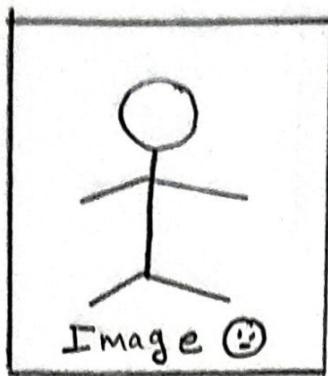
```
<!DOCTYPE html>
<html>
  <head>
    <title> Images </title>
  </head>
  <body>
    
  </body>
</html>
```

span out no area.

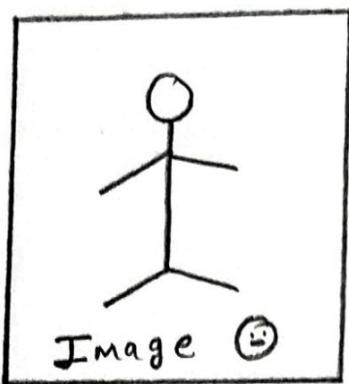
ii) Image Map

```
<!DOCTYPE html>
<html>
  <body>
    <p> Click on the Image </p>
    <map>
      <area name="planmap">
      <area shape="rect" coords="0,0,82,126" href="rect.html">
      <area shape="circle" coords="90,58,3" href="circle.html">
      <area shape="circle" coords="124,58,8" href="square.html">
    </map>
  </body>
</html>
```

OUTPUT - D.i



OUTPUT - D.ii
Click on the image



➤ Program 2: Design a web page use of

A. Table Tags

```
<!DOCTYPE html>
<html>
<head>
<title> HTML Table Header </title>
</head>
<body>
<table border="1">
<tr>
<th> Student </th>
<th> Total </th>
</tr>
<tr>
<td> Boys </td>
<td> 50 </td>
</tr>
<tr>
<td> Girls </td>
<td> 700 </td>
</tr>
</table>
</body>
</html>
```

OUTPUT - A

Student	Total
Boys	50
Girls	700

<?xml version="1.0" encoding="UTF-8"?>
 <student>
 <name>Rahul</name>
 <age>12</age>
 <gender>Male</gender>
 <marks>90</marks>
 <rollno>101</rollno>
 <class>VII</class>
 <subject>Maths</subject>
 <subject>Science</subject>
 <subject>Social</subject>
 <subject>English</subject>
 <subject>Hindi</subject>
 <subject>Computer</subject>
 <subject>Sports</subject>
 <subject>GK</subject>
 <subject>History</subject>
 <subject>Geography</subject>
 <subject>Chemistry</subject>
 <subject>Physics</subject>
 <subject>Biology</subject>
 <subject>Maths</subject>
 <subject>Science</subject>
 <subject>Social</subject>
 <subject>English</subject>
 <subject>Hindi</subject>
 <subject>Computer</subject>
 <subject>Sports</subject>
 <subject>GK</subject>
 <subject>History</subject>
 <subject>Geography</subject>
 <subject>Chemistry</subject>
 <subject>Physics</subject>
 <subject>Biology</subject>

B. Form tags (form with various form elements)

```

<html>
<head>
<title> Form Page : sampleform </title>
</head>
<body>
<h1> Sample Form Page </h1>
<form id="sampleform" method="post" action="">
<p> Name : <input type="text" name="Name"/> </p>
<p>
    Email : <input type="text" name="Email"/>
</p>
<p>
    Gender : <input type="radio" name="g1"/> Male
    <input type="radio" name="g1"/> Female
</p>
<p>
    Hobbies : <input type="checkbox" name="Hobbies1" value="on"/>
    Dancing
    <input type="checkbox" name="Hobbies1" value="on"/>
    Singing
</p>
<p> <input type="submit" name="Submit" value="Submit"/>
</p>
</body>
</html>

```

OUTPUT - B

Sample form Page

Name :

<input>

Email :

<input>

Gender: Male Female

<input>

Hobbies: Dancing Singing

<input>

Submit

<div> input and output </div>

 <input type="text" value="password"> <input type="text" value="username">

 <input type="text" value="first"> <input type="text" value="last">

 <input type="text" value="email">

 <input type="text" value="gender">

 <input type="text" value="hobbies">

 <input type="text" value="password">

password

 <input type="text" value="username">

username

 <input type="text" value="first">

first

</body>

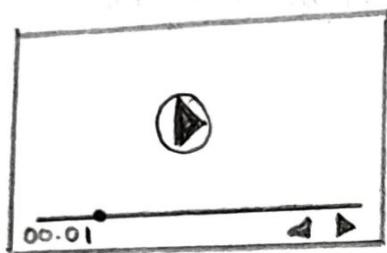
</html>

C. Navigation of multiple web pages

```
<html>
<head>
<title> Navigation </title>
</head>
<body>
<div align="center">
    <a href = "Table.html" > A.Table.html </a><br>
    <a href = "www.google.com" > Google </a><br>
    <a href = "www.youtube.com" > YouTube </a><br>
</div>
</body>
</html>
```

D. Embedded multimedia elements

```
<html>
<body>
<video width = "320" height = "240" autoplay>
    <source src = "movie.mp4" type = "video/mp4">
    <source src = "movie.mp4" type = "video/ogg">
</video>
</body>
</html>
```

OUTPUT-CA. Table TagGoogleSanjay ChaurasiyaOUTPUT-DVideo

➤ Program 3: Design a webpage that make use of Cascading Style Sheets with

A. CSS properties to change the background of a Page

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
h1 {background-color: green;}
```

```
p {background-color: yellow;}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1> CSS Background-color Example </h1>
```

```
<div>
```

We are in the div tag.

`<p> This paragraph will have a different background color </p>`

We are still in the div element

```
</div>
```

```
</body>
```

```
</html>
```

B. CSS properties to change fonts and Text Styles

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

OUTPUT - ACSS Background-color Example

We are in the div tag

This Paragraph will have a different background color Yellow

We are still in the div element

OUTPUT - B

Paragraph is normal form

Italic style

Oblique style

p. normal {

font-family: "Times New Roman", Times, serif;

font-style: normal;

}

p. italic {

font-family: "Arial, Helvetica", sans-serif;

font-style: italic;

}

p. oblique {

font-style: oblique;

}

</style>

</head>

<body>

<p class="normal">Paragraph is normal form </p>

<p class="italic"> Italic style</p>

<p class="oblique"> Oblique style </p>

</body>

</html>

C. CSS properties for positioning an element

<!DOCTYPE html>

<html>

<head>

<style>

div.static {

position: static;

border: 3px solid #73AD21;

}

p.relative {

position: relative;

left: 30px;

border: 3px solid #73AD21

}

</style>

</head>

<body>

<h2> Position: Static; </h2>

<p class = "relative"> This paragraph will be positioned
relatively </p>

<div class = "static">

This div element has position: static; </div>

</body>

</html>

OUTPUT - C

Position: static;

This paragraph will be positioned relatively

This div element has position: static;

<div> position: relative;
<div> position: absolute;
position: absolute;

<div> position: relative;
<div> position: absolute;

- Program 4: Write JavaScript code for
- A. Performing various mathematical operations such as calculating factorial / finding Fibonacci Series / Displaying Prime Numbers in a given range / Evaluating Expressions / Calculating reverse of a number

A.i] Calculating factorial

```

<html>
<head>
<script>
function show() {
    var i, no, fact;
    fact = 1;
    no = Number(document.getElementById("num").value);
    for (i = 1; i <= no; i++) {
        fact = fact * i;
    }
    document.getElementById("answer").value = fact;
}

```

</script>

</head>

<body>

Enter Num: <input id = "num">

<button onclick = "show()"> Factorial </button>

<input id = "answer">

</body>

</html>

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OUTPUT-A.i

Enter Num 5

factorial

120

A.

Factorial of a number is the product of all positive integers less than or equal to the given number. It is denoted by the symbol "!"

Symbol:

Symbol:

Symbol:

30 words remaining

that can be now

be took

Factorial of a number is the product of all positive integers less than or equal to the given number. It is denoted by the symbol "!"

After solving the sum it is found that the term is

Symbol:

Symbol:

Symbol:

Symbol:

Symbol:

Symbol:

Symbol:

Symbol:

Symbol:

A.ii] Finding Fibonacci Series

```
<html>
<head><title> Fibonacci Series </title> </head>
<body>
<script type="text/javascript">
```

```
var var1 = 0;
```

```
var var2 = 1;
```

```
var var3;
```

```
var num = prompt("Enter the limit to generate fibonacci no ", 0);
```

```
document.write(var1 + "<br>");
```

```
document.write(var2 + "<br />");
```

```
for (var i=3; i<=num; i++) {
```

```
    var3 = var1 + var2;
```

```
    var1 = var2;
```

```
    var2 = var3;
```

```
    document.write(var3 + "<br />");
```

```
}
```

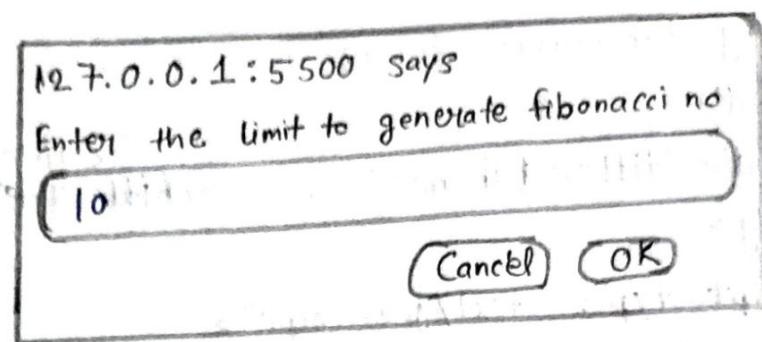
```
</script>
```

```
</body>
```

```
</html>
```

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OUTPUT - A.ii



0
1
1
2
3
5
8
13
21
34

A.iii] Displaying Prime Numbers in a given range.

```

<html>
<head>
<script type = "text/javascript">
function calcPrimeNumber() {
    var beginNum = parseInt(document.getElementsByName("firstNum").value);
    var endNum = parseInt(document.getElementsByName("secondNum").value);
    var primeNums = [];
    var ctr = beginNum;
    while (ctr <= endNum) {
        if (isPrime(ctr) == true) {
            primeNums[primeNums.length] = ctr;
        }
        ctr = ctr + 1;
    }
    if (primeNums.length == 0) {
        document.getElementById("output-content").innerHTML =
            "There are no prime numbers within the page.";
    } else {
        outputPrimeNums(primeNums);
    }
}

function isPrime(num) {
    if (num < 2) return false;
    for (var i = 2; i <= Math.floor(num / 2); i++) {
        if (num % i == 0) {
    
```

OUTPUT - A.iiiBeginning Number: 10End Number: 30find Prime Numbers**Prime Numbers**

11

13

17

19

23

29

```

    return false;
}
}

return true;
}

function outputPrimeNums(primes) {
  var html = "<h2> Prime Numbers </h2>";
  for (var i = 0; i < primes.length; i++) {
    html += primes[i] + "<br>";
  }
  document.getElementById('output-content').innerHTML = html;
}

</script></head>
<body>
<div>
<form name="numbers">
  Beginning Number: <input type="text" name="firstNum"/><br><br>
  End Number: <input type="text" name="secondNum"/><br><br>
  <input type="button" value="Find Prime Numbers" onclick=
    "calcPrimeNumber()"/>
</form> </div> <br>
<div id="output-content" style="font-size: 20px;
  color: blue;"></div>
</body>
</html>

```

A.iv] Evaluating Expressions

```
<html>
```

```
<body>
```

```
<p> Click the button to evaluate / execute JavaScript Code /  
expressions </p>
```

```
<button onclick="myFunction()"> Try it </button>
```

```
<p id="demo"></p>
```

```
<script>
```

```
function myfunction () {
```

```
    var x = 10;
```

```
    var y = 20;
```

```
    var a = eval("x*y") + "<br>";
```

```
    var b = eval("2+2") + "<br>";
```

```
    var c = eval("x+17") + "<br>";
```

```
    var res = a+b+c;
```

```
    document.getElementById("demo").innerHTML = res;
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```

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OUTPUT - 4.iv

Click the button to evaluate/execute JavaScript Code/expressions

Try it

200

4 frequent search student at website with code

27

<html>

<body>

<div> Undergrads

student(s) typed "C" without typeahead and auto

<"sub">hi q>

↳ C without typeahead

10000 nov

6200 nov

("" + ("x*2")) nov 10 nov

("" + ("x*2")) nov 11 nov

("" + ("x*2")) nov 12 nov

C typeahead nov

280874476563 (0.0000000000000002) by & the number of times

8

</body>

</html>

A.v] Calculating reverse of a number

<html>

<head>

<script>

function palin() {

var a, no, b, temp = 0;

no = Number(document.getElementById("no-input").value);

b = no;

while (no > 0) {

a = no % 10;

no = parseInt(no / 10);

temp = temp * 10 + a;

}

alert("Reverse is: " + temp);

}

</script>

</head>

<body>

Enter any Number: <input id="no-input">

<button onclick="palin()"> Check </button>

</body>

</html>

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OUTPUT - 4.v

Enter any Number: Check

127.0.0.1:5500 says

Reverse is: 73245

OK

B. Validating the various Form Elements

B.i] Number validation function

```
<html>
```

```
<head>
```

```
<script>
```

```
function validateNum() {
```

```
    var num = document.myform.num.value;
```

```
    if (num == "") {
```

```
        alert("Please enter a number");
```

```
        return false;
```

```
}
```

```
    if (isNaN(num)) {
```

```
        alert("Enter numeric values only");
```

```
        return false;
```

```
}
```

```
    alert("Valid number");
```

```
    return true;
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<form name="myform" onsubmit="return validateNum()">
```

```
    Enter Number: <input type="text" name="num"> <br> <br>
```

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

```
</form> </body>
```

```
</html>
```

OUTPUT-# B.iEnter Number:

127.0.0.1:5500 says

Valid number ☺

& (Current window)

(Select window) → Main Page

& (Current window) →

("Select & Enter" window)

(Select window)

E

& (Current window) →

("File Selection" window)

(Select window)

E

("Medium file") →

(Select window)

E

<Body>

<Head>

& ("Current window" window) → Main window "mosty" → Select mosty

& (Current window) → Main "text" page → Main window "text"

& ("text" window "text" page) →

 <Body>

<Head>

B. ii] Name password validation function

```

<html>
<head>
<script>
function ValidateLogin() {
    var name = document.myform.name.value;
    var pwd = document.myform.password.value;
    if (name == null || name == "") {
        alert("Name can't be blank");
        return false;
    } else if (pwd.length < 6) {
        alert("Password must be at least 6 characters long.");
        return false;
    }
    else {
        alert("Login successful!");
        return true;
    }
}
</script>
<body>
<form name="myform" onsubmit="return ValidateLogin()">
    <label> Name:</label>
    <input type="text" name="name"><br><br>
    <label> Password:</label>

```

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OUTPUT - 4.B.ii

Name : **Veldez**

Password : *********

Login

127.0.0.1:55001 says

Login successful! **OK**

3 (" ") + Smart II (un = smart) + i

i ("dumb" + "smart") + ok

127.0.0.1:55001 says

3 (" ") + Smart II (un = smart) + i

i ("dumb" + "smart") + ok

127.0.0.1:55001 says

("I am now a pig") + un

127.0.0.1:55001 says

<Smart>

<Dumb>

127.0.0.1:55001 says "I am now a pig" + Smart mode >

<Smart> + Smart <Dumb>

<Smart> <Dumb> <"Smart"> Smart "Dumb" + Smart & Dumb >

<Smart> <Smart> <"Smart"> Smart "Dumb" + Smart & Dumb >

```

<input type="password" name="password"><br><br>
<input type="submit" value="Login">
</form>
</body>
</html>

```

B.iii] Retype password validation function

```

<html>
<head>
<script>
function retype_pass() {
    var firstpwd = document.f1.password.value;
    var secondpwd = document.f1.password2.value;
    if (firstpwd == secondpwd) {
        return true;
    } else {
        alert("Password must be Same!");
        return false;
    }
}
</script>
</head>
<form name="f1" onsubmit="return retype_pass()">
<label>Password:</label>
<input type="password" name="password"><br><br>

```

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OUTPUT - 4. B. iii

Password: [REDACTED] "password" sajkt tapis

Retype Password: [REDACTED] "password" sajkt tapis

Register

127.0.0.1:5500 says

Password must be same!

OK

```

<label> Retype Password : </label>
<input type = "password" name = "password2"> <br> <br>
<input type = "submit" value = "Register">
</form>
</body>
</html>

```

B.17 Email validation function

```

<html>
<head>
<script>
function validateemail () {
    var x = document.myform.email.value;
    var atposition = x.indexOf("@");
    var dotposition = x.lastIndexOf(".");
    if (atposition < 1 || dotposition < atposition + 2 || dotposition + 2 >= x.length) {
        alert("Please enter a valid e-mail address\n" +
              "atposition : " + atposition + "\n" +
              "dotposition : " + dotposition);
        return false;
    }
    return true;
}
</script>
<body>

```

```
<form name="myform" onsubmit="return validateemail()">
  <label>Email:</label>
  <input type="text" name="email"><br><br>
  <input type="submit" value="Submit">
</form>
</body>
</html>
```

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OUTPUT - 4.5.iv

Email : Binod@gmail.com

Submit

► Program 5: Write Javascript code for

A. Demonstrating different Javascript objects such as String, RegExp, Math, Date.

A.i] Regular expression Demonstration,

<html>

<body>

<p> REGULAR EXPRESSION </p>

<button onclick="myFunction()"> Try it </button>

<script>

function myFunction () {

var str = "All these are not possible using HTML!";

var n = str.search (/possible/i);

document.write ("
" + n + "
");

var res = str.replace (/possible/i, "POSSIBLE");

document.write ("
" + res + "
");

var patt = /e/;

document.write ("
" + patt.test (str) + "
");

}

</script>

</body>

</html>

OUTPUT - 5.A.ii

Regular Expression

Try it

18

All these are not POSSIBLE using HTML!

true

("LIMITS give size of font size about 100" + s) nov

i((sizedeq)) sizeoneone = nov

i("<sd>" + s) + "<sd>" of one framework

i("sizeoneone" + i(sizedeq)) sizeoneone = nov

i("<sd>" + s) + "<sd>" of one framework

{\s} : flag nov

("sd>" + (s) + "sd>" + "sd>") of one framework

}

<tagone>

<subed>

<bold>

A.ii] String Demonstration

```

<html>
<body>
<script>

var str1 = "Hey diddle diddle, the cat and the fiddle, The cow
           jumped over the moon.";
var str2 = "The little dog laughed to see such fun, And the
           dish ran away the spoon!";
document.write(str1 + "<br>" + str2 + "<br>");
var sln = str1.length;
document.write("<br>" + "Length of string is:" + sln + "<br>");
var x = 'It\'s alright';
var y = "we are the so-called \"Viking\" from the north."
document.write("<br>" + x + "<br>");
document.write("<br>" + y + "<br>");

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

```

A.iii] Math Demonstration

```

<html>
<body>
<h2>JavaScript Math Demo </h2>
<script type = "text/javascript">
  document.write("PI = " + Math.PI + "<br>");
  document.write("random number = " + Math.round(49.657) + "<br>");
  document.write("rounding = " + Math.round(6.433) + "<br>");
</script>

```

OUTPUT - 5.A.ii

Hey diddle diddle, the cat and the fiddle, The cow jumped over the moon.

The little dog laughed to see such fun, And the dish ran away the spon!

Length of string is : 72

It's alright

We are the so-called "Viking" from north.

<Top(652)>
<blood>
<infltr>

<infltr>
<infltr>
<phob>

<phob> <infltr> <infltr> <phob>

<phob> <infltr> <infltr> <phob>

<("Kod>" + T + "blood" + H + "I")> stood.farmwork

<("Kod"> + (H + A) + "blood" + H + "mince" + "meat" + "I")> stood.farmwork

<("Kod"> + (G + E) + "blood" + H + "gut" + "meat" + "I")> stood.farmwork

```

document.write("pow = " + Math.pow(10, 3) + "<br>");  

document.write("square root = " + Math.sqrt(64) + "<br>");  

document.write("absolute = " + Math.abs(-67.7) + "<br>");  

document.write("ceil = " + Math.ceil(6.4) + "<br>");  

document.write("floor = " + Math.floor(4.7) + "<br>");  

document.write("sin = " + Math.sin(90 * Math.PI / 180) + "<br>");  

document.write("cos = " + Math.cos(0 * Math.PI / 180) + "<br>");  

document.write("finding max = " + Math.max(0, 150, 30, 20, -8, -200) +  

    "<br>");  


```

</script>

</body>

</html>

A.iv) Date Demonstration

<html>

<body>

<h2> Date demonstration </h2>

<script>

```
document.write(Date());
```

```
var d = new Date();
```

```
document.write("<br>" + d + "<br>");
```

```
var d1 = new Date("August 30, 2004 17:11:00");
```

```
document.write("<br>" + d1 + "<br>");
```

```
var d2 = new Date(45400000);
```

```
document.write("<br>" + d2 + "<br>");
```

OUTPUT - 5. A. iii**JavaScript Math Demo**

PI = 3.141592653589793

random number = 50

rounding = 6

pow = 1000

square root = 8

absolute = 67.7

ceil = 7

floor = 4

sin = 1

cos = 1

finding max = 150

OUTPUT - 5. A. iv**Date demonstration**

Tue Feb 17 2026 15:42:41 GMT +0530 (India Standard Time)

Tue Feb 17 2026 15:42:41 GMT +0530 (India Standard Time)

Mon Aug 30 2004 17:11:00 GMT +0530 (India Standard Time)

Thu Jan 01 1970 18:06:40 GMT +0530 (India Standard Time)

Thu Jan 24 1999 11:33:30 GMT +0530 (India Standard Time)

Thu Jan 24 1999 00:00:00 GMT +0530 (India Standard Time)

d. toUTCString() Tue, 17 Feb 2026 10:34:15 GMT

```

var d3 = new Date(99, 5, 24, 11, 33, 30, 0);
document.write("<br>" + d3 + "<br>");
var d4 = new Date(99, 5, 24);
document.write("<br>" + d4 + "<br>");
document.write("<br>" + "d.toUTCString()" + "d.toUTCString()");
</script>
</body>
</html>

```

B. Demonstrating different JavaScript Objects such as Window, Navigator, History, Location, Document

B.i] WINDOW object Demonstration

```

<html>
<body>
<input type = "button" value = "Delete Record" onclick = "del()"/>
<script type = "text/javascript">
function del() {
    var ans = confirm("Are u sure?");
    if (ans == true) {
        alert("ok");
    }
    else {
        alert("cancel");
    }
}
</script> </body> </html>

```

OUTPUT - 5. B. i**Delete Record**

127.0.0.1:5500 says

Are u Sure?

Cancel**OK**

127.0.0.1:5500 says

OK**OK**

<highlight>

<bold>

<italic>

<italic>

<bold>

<italic>

{("Delete & Exit") position = 300 row

3 (exit == exit) +

{("X") style

3 3 3 3

{("Show") style

3

3

<italic> & <bold> <highlight>

B.ii] Navigator Object Demonstration

```
<html>
```

```
<body>
```

```
<h2> JavaScript Navigator Object </h2>
```

```
<script>
```

```
document.write("<br>navigator.appCodeName: " + navigator.  
appCodeName);
```

```
document.write("<br>navigator.cookieEnabled: " + navigator.  
cookieEnabled);
```

```
document.write("<br>navigator.userAgent: " + navigator.  
userAgent);
```

```
document.write("<br>navigator appName: " + navigator.  
appName);
```

```
document.write("<br>navigator.appVersion: " + navigator.  
appVersion);
```

```
document.write("<br>navigator.platform: " + navigator.  
platform);
```

```
document.write("<br>navigator.language: " + navigator.  
language);
```

```
document.write("<br>navigator.onLine: " + navigator.  
onLine);
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT - 5. B. ii**JavaScript Navigator Object**

navigator.appCodeName : Mozilla

navigator.cookieEnabled : true

navigator.userAgent : Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/145.0.0.0 Safari/537.36

navigator appName : Netscape

navigator.appVersion : 5.0 (X11; Linux x86_64) AppleWebKit/537.36

(KHTML, like Gecko) Chrome/145.0.0.0 Safari/537.36

navigator.platform : Linux x86_64

navigator.language : en-US

navigator.onLine : true

navigator

navigator.plugins["Shockwave Flash"]

navigator.plugins

navigator.plugins["Shockwave Flash"]

navigator.plugins

navigator.plugins["Shockwave Flash"]

navigator.plugins

navigator.plugins["Shockwave Flash"]

navigator.plugins

<type>

<plugins>

<host>

B.iii] History Object Demonstration

```
<html>
<head>
<script>
    function goBack() {
        window.history.back()
    }
</script>
<body>
    <input type="button" value="Back" onclick="goBack()">
</body>
</html>
```

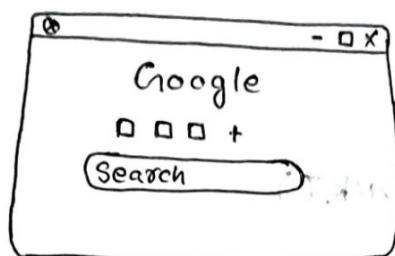
B.iv] Location Object Demonstration

```
<html>
<body>
    <input type="button" value="Replace URL" onclick="myFun()" />
    <script type="text/javascript">
        function myFun() {
            location.replace ("http://www.google.com");
        }
    </script>
</body>
</html>
```

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OUTPUT - 5. B.iii

Back



Comp back Home page

Comp back Home page

Comp back Home page

OUTPUT - 5. B.iv

Replace URL

C.] Storing and Retrieving Cookies

<html>

<head>

<script>

```
function setCookie(c-name, c-value, exdays) {
```

```
var dt = new Date();
```

```
dt.setTime(dt.getTime() + (exdays * 24 * 60 * 60 * 1000));
```

```
var exp = "expires=" + dt.toUTCString();
```

```
document.cookie = c-name + "=" + c-value + ";" + exp + ";path=/";
```

}

```
function getCookie(c-name) {
```

```
var name = c-name + "=";
```

```
var decodedCookie = decodeURIComponent(document.cookie);
```

```
var ca = decodeCookie.split(';');
```

```
for (var i = 0; i < ca.length; i++) {
```

```
var xc = ca[i];
```

```
while (xc.charAt(0) == ' ') {
```

```
xc = xc.substring(1);
```

}

```
if (xc.indexOf(name) == 0) {
```

```
return xc.substring(name.length, xc.length);
```

}

3

```
return "";
```

3

```
function checkCookie() {  
    var user = getCookie("username");  
    if (user != "") {  
        alert("Welcome again " + user);  
    } else {  
        user = prompt("Please enter your name: ", "");  
        if (user != "" && user != null) {  
            setCookie("username", user, 20);  
        }  
    }  
}  
  
</script>  
</head>  
<body onload="checkCookie()">  
</body>  
</html>
```

P-5

OUTPUT - S.C

127.0.0.1:5500 (says) sends action
Please enter your name:
Veldez

127.0.0.1:5500 says
Welcome again Veldez

<global>
<local>

<global> plants
<local>
<method>

► Program 6 : Create a XML file with Internal / External DTD and display it using

A] CSS

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!DOCTYPE book [
  <!ELEMENT book (bname, author, price)>
  <!ELEMENT bname (#PCDATA)>
  <!ELEMENT author (#PCDATA)>
  <!ELEMENT price (#PCDATA)>
]>
<book>
  <bname> Tanmay Patil </bname>
  <author> TutorialsPoint </author>
  <price> 500 </price>
</book>
```

B] XSL

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0">
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:template match="/">
    <html>
      <body>
        <h2> Book Details </h2>
```

```
<table border="1">
  <tr bgcolor="#ffff00">
    <th> BOOK NAME </th>
    <th> AUTHOR </th>
    <th> PRICE </th>
  </tr>
  <tr>
    <td><xsl:value-of select="book/bname"/></td>
    <td><xsl:value-of select="book/author"/></td>
    <td><xsl:value-of select="book/price"/></td>
  </tr>
</table>
</body>
</html>
</xsl:template>
</xslstylesheet>
```

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OUTPUT - 6. A, B XML and XSLT

Transformation Result:		
Close	Book DETAILS	
Book Name	AUTHOR	PRICE
Tanmay Patil	TutorialPoint	500

```
<html><?xml version="1.0" encoding="UTF-8"?><body>
<html><?xml version="1.0" encoding="UTF-8"?><xsl:stylesheet
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
    <xsl:output method="text" encoding="UTF-8"/>
    <xsl:strip-space elements="*"/>
    <xsl:template match="book">
      <book>
        <author>
          <xsl:value-of select="author" />
        </author>
        <price>
          <xsl:value-of select="price" />
        </price>
      </book>
    <xsl:template>
  </xsl:stylesheet>
</html>
```

► Program 7: Design a webpage to handle asynchronous requests using AJAX on

A] Mouseover

```

<html>
    <body>
        <h1>The XMLHttpRequestAsynchronous Request Demo </h1>
        <button type="button" onmouseover="showfile()"> Show Text
            file content </button>

        <script>
            <function showfile() {
                var xhttp = new XMLHttpRequest();
                xhttp.onreadystatechange = function() {
                    if (this.readyState == 4 && this.status == 200) {
                        document.write(this.responseText);
                    }
                };
                xhttp.open("GET", "My-File.txt", true);
            }
        </script>
    </body>
</html>
```

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OUTPUT - 7.A

The XMLHttpRequest Asynchronous Request Demo

Show Text File Content

Rom Rom Bhaiyo...!

```
<?xml version="1.0" encoding="UTF-8"?><!DOCTYPE html>
```

```
<html><head><title>XMLHttpRequest</title></head>
```

```
<body><script type="text/javascript">
```

```
function loadFileContent() {<br/>
```

```
    var xhttp = new XMLHttpRequest();<br/>
```

```
    xhttp.onreadystatechange = function() {<br/>
```

```
        if (xhttp.readyState == 4 && xhttp.status == 200) {<br/>
```

```
            var xmlDoc = xhttp.responseXML; <br/>
```

```
            var title = xmlDoc.getElementsByTagName("title").item(0).<br/>
```

```
            var content = xmlDoc.getElementsByTagName("content").item(0);<br/>
```

```
            document.write("Title: " + title.innerHTML + "<br/>" + "Content: " + content.innerHTML);<br/>
```

```
        }<br/>
```

```
    xhttp.open("GET", "textfile.txt", true);<br/>
```

```
    xhttp.send();<br/>
```

```
</script>
```

```
</body>
```

```
</html>
```

B] Button click

```

<html>
<body>
    <h1>The XMLHttpRequestAsynchronous Request Demo</h1>
    <button type = "button" onclick = "showDoc()"> Show file Content
    </button>

    <script>
        function showDoc() {
            var xhttp = new XMLHttpRequest();
            xhttp.onreadystatechange = function() {
                if (this.readyState == 4 && this.status == 200) {
                    document.write(this.responseText);
                }
            };
            xhttp.open("GET", "My-File.txt", true);
            xhttp.send();
        }
    </script>
</body>
</html>

```

OUTPUT- 7.BThe XMLHttpRequestAsynchronous Request DemoShow file Content**Ram Ram Sanyaannoo...!**

<html><head><title>XMLHttpRequest</title></head>

asynchronous XMLHttpRequest object created

Content:

<hr>

<body><div id="content">

<h1>Temporary File</h1>

<h2>Initial Response</h2>

<pre><script>function start() {</script></pre>

<(function () {</function></pre>

<

</pre>

<(script>start();</script></pre>)</pre>

<(pre>response = </pre>

<

<hr>

</pre>

</pre>

- Program 8: Write PHP scripts for
- Retrieving data from HTML forms

A.1.] File: form1.html

<html>

<body>

<form action = "welcome.php" method = "get">

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

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

</form>

</body>

</html>

A.2.] File: welcome.php

<?php

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

echo "Welcome in Pakistan, \$name";

?>

- Performing certain mathematical operation such as calculating factorial / finding Fibonacci Series / Displaying Prime Numbers in a given range / Evaluating Expressions / Calculating reverse of a number.

OUTPUT - 8. A (HTML / PHP)

Name: Binod

Visit

Welcome in Pakistan, Binod

```

<"tag":><button>"Welcome to Pakistan" </button>
<"body"><div><"text">Visit <a href="#">Pakistan</a>
<"title"><"text">"Binod" <a href="#">Visit</a>
</div></body>
<!DOCTYPE html>
<html>
<head>
<title>Welcome to Pakistan</title>
</head>
<body>
<button>"Welcome to Pakistan" </button>
<"text">Visit <a href="#">Pakistan</a>
<"text">"Binod" <a href="#">Visit</a>
</body>
</html>

```

Ques:- Write a program which takes name as input from user and prints "Welcome to Pakistan" + name + "Visit Pakistan" on screen.

Output:- Welcome to Pakistan

B.i] Factorial

<?php

 $\$n = 4;$ $\$f = 1;$

```
for ($x = 1; $x <= $n; $x++) {
    $f = $f * $x;
}
```

?

echo "factorial of \$n is: \$f";

?>

B.ii] Fibonacci Series

<?php

 $\$n = 10;$ $\$a = 0;$ $\$b = 1;$

echo "\$a \$b";

```
for ($i = 3; $i <= $n; $i++) {
    echo $c = $a + $b;
    echo " ";
    $a = $b;
    $b = $c;
}
```

?

?>

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OUTPUT- 8. B.i

factorial of 4 is: 24

OUTPUT- 8. B.ii

0 1 1 2 3 5 8 13 21 34

B.iii] Prime Number

<?php

\$n = 50;

for (\$j = 2; \$j <= \$n; \$j++) {

for (\$k = 2; \$k < \$j; \$k++) {

if (\$j % \$k == 0) {

break;

}

}

if (\$k == \$j) {

echo "Prime number: ", \$j, "
";

}

}

?>

B.iv] Reverse Number

<?php

\$num = 139;

\$r = 0;

while (\$num != 0) {

\$r = \$r * 10 + \$num % 10;

\$num = (int) (\$num / 10);

}

echo "Reverse of the number is: \$r";

?>

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OUTPUT- 8. B.iii

Prime number: 2

Prime number: 3

Prime number: 5

Prime number: 7

Prime number: 11

Prime number: 13

Prime number: 17

Prime number: 19

Prime number: 23

Prime number: 29

Prime number: 31

Prime number: 37

Prime number: 41

Prime number: 43

Prime number: 47

OUTPUT- 8. B.iv

Reverse of the number is: 931

C] Working with Arrays

```
<!DOCTYPE html>
<html>
  <body>
    <?php
      $numb = array(1, 2, 3, 4, 5);
      foreach ($numb as $v) {
        echo "Value = $v<br>";
      }
    </body>
</html>
```

D. Working with Files (Reading / Writing)

D.i] File Writing

```
<html>
  <body>
    <?php
      $filename = "test.txt";
      $file = fopen($filename, "w");
      if ($file == false) {
        echo "Error in opening file";
        exit();
      }
      Bas Karo Yaar Kitna dekh ke ukho...!);
      fwrite($file, "This is a sample text file");
      fclose($file);
```

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OUTPUT - 8.c

Value = 1

Value = 2

Value = 3

Value = 4

Value = 5

Value = 1 is printed

Value = 2 is printed

Value = 3

Value = 4

Value = 5

{C:\Users\Arun\Documents}

3 (it is about) printed

"(345 678 90123)" are

OUTPUT - 8.D.i

text.txt created

<filed>

<method>

text.txt file is created in C:\Users\Arun\Documents

path is C:\Users\Arun\Documents

<instl>

<field>

<file>

"text.txt" is created

file is created in path

? (what is this?) is

"alt gr key is used" also

(C) file

i) what is alt key used for

(ii) what does shift+alt+ctrl+del do

(iii) what is it

?>

</body>
</html>

D.ii] File Reading

<html>

<head>

<title>Reading a file using PHP </title> </head>

<body>

<?php

\$filename = "test.txt";

\$file = fopen (\$filename, "r");

if (\$file == false) {

echo "Error in opening file";

exit();

}

\$filesize = filesize (\$filename);

\$filetext = fread (\$file, \$filesize);

fclose (\$file);

echo ("<pre>\$filetext</pre>");

?>

</html>

OUTPUT - 8.D.ii

Bas Kago yaar Kitna dekh Ke likhoge ...!

<file>

<method>

<method> did ...

<method>

<method>

<method> <method> 9699 print did e farbat <method>

<method>

<method>

"farbat" = smasid?

"8" (smasid) nafot = id?

3 (id) = smasid?

{"id" print id "8"} id?

10 fix

8

(smasid) nafot = id?

(id) nafot = id?

((id)) nafot

("<ap>testid<ap>") id?

8

<method>

➤ Program 9: write PHP scripts for

A. Working with Databases (Storing Records / Retrieving Records and Display them)

<?php

```
$servername = "localhost";
$username = "root";
$password = "Admin@#23";
$dbname = "myDB";
```

```
$conn = new mysqli($servername, $username, $password, $dbname);
```

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

}

```
$sql = "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('Abc', 'Def', 'abc@yahoo.com')";
if ($conn->query ($sql) == TRUE) {
    echo "New record created successfully";
```

else {

```
    echo "Error: ". $sql. "<b>" . $conn->error;
}
```

}

```
$sql = "SELECT id, firstname, lastname FROM MyGuests";
$result = $conn->query ($sql);
```

```

if ($result -> num_rows > 0) {
    while ($row = $result -> fetch_assoc()) {
        echo "id: " . $row["id"] . " - Name: " . $row["firstname"]
            . " " . $row["lastname"] . "<br>";
    }
} else {
    echo "0 results";
}
$conn -> close();
?>

```

B] Storing and Retrieving Cookies

```

<?php
setcookie ("user", "Guest");
?>
<html>
    <body>
        <?php
        if (!isset ($_COOKIE ["user"])) {
            echo "Cookie is not set yet. Please refresh the page.";
        } else {
            echo "Cookie Value: " . $_COOKIE ["user"];
        }
    ?>
    </body>
</html>

```

OUTPUT-9.A

New record created successfully id: 1 - Name : Abc def
id: 2 - Name : Abc Def

OUTPUT-9.B

Cookie is not set you. Please refresh the page.

C. Storing and Retrieving Sessions

C.1] Storing Session

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

?>

<html>

<body>

<?php

\$-SESSION["favcolor"] = "purple";

\$-SESSION["favflower"] = "lily";

echo "Session variables are set.";

?>

</body>

</html>

C.2] Retrieving Sessions

<?php

session_start();

?>

<html>

<body>

<?php

echo "Favorite color is ".\$-SESSION["favcolor"]. "
";

echo "favorite animal is ".\$-SESSION["favflower"]. "
";

?>

</body>

</html>

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OUTPUT-9.C.1

Session variables are set.

OUTPUT-9.C.2

favorite color is purple.
favorite animal is ugly.

➤ Program 10: Design a webpage with some jquery animation effects.

```

<html>
<head>
<script src="https://code.jquery.com/jquery-3.7.1.min.js">
</script>
<script>
$(document).ready(function () {
    $("button").click(function () {
        $("#p1").toggle();
    });
    $("#p2").click(function () {
        $("#p2").hide();
    });
    $("button").click(function () {
        $("#p3").animate({height: 'toggle'});
    });
});
</script> </head>
<body>
<button>click here</button>
<p id="p1">This is a paragraph with little content.</p>
<p id="p2">Click Me This is another small paragraph</p>
<p id="p3">Moving !!!</p>
</body>
</html>

```

OUTPUT- 10**click here**

This is a paragraph with little content.

Click Me This is another small paragraph

Moving !!!