**Web Application Development**

**MID-PAPER**

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**Question no 1:**

**Part A:**

**Explain session and cookies and write two difference between them.**

**Answer: Session:** A session is a group of user interactions with your website that take place within a given time frame.

**Cookies:** A cookie is a piece of data from a website that is stored within a web browser that the website can retrieve at a later time.

**Difference:**

Cookies are client-side files that are stored on a local computer and contain user information. Sessions are server-side files that store user information. Cookies expire after the user specified lifetime. The session ends when the user closes the browser or logs out of the program**.**

**Part B:**

**Use JavaScript program to show a div when user place mouse on the button and hide that div when it leave the button.**

**Answer:**

$("#help-container")

.mouseover(function(e) {

$(this).find("#help-text").fadeIn(100).width("80%");

})

.mouseleave(function(e) {

$(this).find("#help-text").fadeOut(100).width("0%");

});

**Part C:**

**Write JavaScript code or pseudo code to calculate the student GPA for one semester.**

**Answer:**

<script>

function Total(){

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

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

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

var sub4 = parseInt(document.getElementById("chm").value);

var sub5 = parseInt(document.getElementById("cmp").value);

if(sub1>100 || sub2>100 || sub3>100 || sub4>100 || sub5>100 )

{

alert("Please Enter Marks in range of 100");

}

else {

var total= sub1 + sub2 + sub3 + sub4 + sub5;

document.getElementById("total").innerHTML = "English Marks :"+sub1+"<br> Maths Marks: "+sub2+"<br> Physics Marks: "+sub3+"<br> Chemistry Marks: "+sub4+"<br> Computer Marks: "+sub5+"<br> Total Marks: "+total;

}

}

function Average(){

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

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

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

var sub4 = parseInt(document.getElementById("chm").value);

var sub5 = parseInt(document.getElementById("cmp").value);

if(sub1>100 || sub2>100 || sub3>100 || sub4>100 || sub5>100 )

{

alert("Please Enter Marks in range of 100");

}

else {

var total= sub1 + sub2 + sub3 + sub4 + sub5;

var avg=total/5;

document.getElementById("avg").innerHTML="Your Average marks are: "+avg;

}

}

function Grade(){

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

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

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

var sub4 = parseInt(document.getElementById("chm").value);

var sub5 = parseInt(document.getElementById("cmp").value);

if(sub1>100 || sub2>100 || sub3>100 || sub4>100 || sub5>100 )

{

alert("Please Enter Marks in range of 100");

}else {

var total= sub1 + sub2 + sub3 + sub4 + sub5;

var avg=total/5;

if(avg>=80 && avg<=100)

{

document.getElementById("grade").innerHTML="You Got A+ Grade";

}

else if(avg>=75 && avg<=80)

{

document.getElementById("grade").innerHTML="You Got A+ Grade";

}

else if(avg>=70 && avg<=75)

{

document.getElementById("grade").innerHTML="You Got A Grade";

}

else if(avg>=65 && avg<=70)

{

document.getElementById("grade").innerHTML="You Got B Grade";

}

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

{

document.getElementById("grade").innerHTML="You Got C Grade";

}

else if(avg>=40 && avg<=50)

{

document.getElementById("grade").innerHTML="You Got C Grade";

}

else {

document.getElementById("grade").innerHTML="You Got F Grade";

}

}

}

</script>

**Question no 2:**

**Use Associative array to store the below weather data and print the day with maximum temperature by applying foreach loop.**

**Answer:**

function max(arr) {

var max = arr[0];

for (var i = 1; i < arr.length; i++) {

if (arr[i] > max) {

max = arr[i];

}

}

return max;

}

**Question no 3:**

**Use CSS for preparing the navigation bar exactly like the below one with two levels. Do not write html.**

**Answer:**

.nav a {

display:block;

background: #111;

color: #fff;

text-decoration: none;

padding: 0.8em 1.8em;

text-transform: uppercase;

font-size: 80%;

letter-spacing: 2px;

text-shadow: 0 -1px 0 #000;

position: relative;

}

.nav{

vertical-align: top;

display: inline-block;

box-shadow:

1px -1px -1px 1px #000,

-1px 1px -1px 1px #fff,

0 0 6px 3px #fff;

border-radius:6px;

}

.nav li {

position: relative;

}

.nav > li {

float: left;

border-bottom: 4px #aaa solid;

margin-right: 1px;

}

.nav > li > a {

margin-bottom: 1px;

box-shadow: inset 0 2em .33em -0.5em #555;

}

.nav > li:hover,

.nav > li:hover > a {

border-bottom-color: orange;

}

.nav li:hover > a {

color:orange;

}

**Question no 4:**

1. **Use Html to create a form in HTML as given below.**
2. **Apply JavaScript Validation on all empty fields additionally the CV field should accept only pdf or docx file types.**

**Solution:**

**Html File:**

<!DOCTYPE html>

<html lang="en">

<head>

    <style>

        table,tr,td{

            border: 1px solid black;

            border-collapse: collapse;

            margin-left: 450px;

        }

    </style>

    <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>Document</title>

</head>

<body>

    <form action="">

    <table>

        <tr>

            <td>Name</td>

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

        </tr>

        <tr>

            <td>Email</td>

            <td><input type="email" name="" id="" required></td>

        </tr>

        <tr>

            <td>Password</td>

            <td><input type="password" name="" id="" required></td>

        </tr>

        <tr>

            <td>Phone No</td>

            <td><input type="number" name="" id="" required></td>

        </tr>

        <tr>

            <td>Gender</td>

            <td>Male <input type="radio" name="" id=""> Female <input type="radio" name="" id=""></td>

        </tr>

        <tr>

            <td>Subject</td>

        <td>    <select name="" id="">

                <option value="Web Application Development">Web Application Development</option>

                <option value="Object Oriented Programming">Object Oriented Programming</option>

                <option value="Computer Achritecture">Computer Achritecture</option>

                <option value="Database System">Database System</option>

                <option value="Software Engineering">Software Engineering</option>

            </select>

        </td>

        </tr>

        <tr>

            <td>CV</td>

            <td><input type="file"></td>

        </tr>

        <tr>

            <td>Test</td>

            <td><input type="checkbox">Html <input type="checkbox"> Css <input type="checkbox"> JavaScript <input type="checkbox"> Jquery </td>

        </tr>

        <tr>

            <td><button>Submit</button>

            <button>Reset</button></td>

        </tr>

    </table>

</form>

**JavaScript file:**

<script>

    function validateform(){

    var name=document.myform.name.value;

    var name=document.myform.email.value;

    var password=document.myform.password.value;

    if (name==null || name==""){

      alert("Name can't be blank");

      return false;

    }

    esle if (email==null || email==""){

      alert("Email can't be blank");

      return false;

    }

    else if(password.length<6){

      alert("Password must be at least 6 characters long.");

      return false;

      }

    }

    </script>