WORKSHEET -7

WEB DESIGNING LAB

ROLL NO:20PW30

1.

<html>

<body>

    <p>The current date and time is :<span id="date-time"></span>.</p>

</body>

<script>

var dt = new Date();

document.getElementById('date-time').innerHTML=dt;

</script>

</html>



2.

<html>

    <title>

        Conversion of temperature

    </title>

    <body>

        <form>

            <label>Enter the temperature in celsius: </label>

            <input type="number" id="tempcel"></input>

            <button type="button" onclick="convert\_cel\_to\_fah()"></button><p id="fahrenheit">In Fahrenheit :</p>

            <br><br>

            <label>Enter the temperature in Fahrenheit : </label>

            <input type="number" id="tempfah"</input>

            <button type="button" onclick="convert\_fah\_to\_cel()"></button><p>In celcius : <span id="celcius"></span></p>

        </form>

    </body>

    <script>

        function convert\_cel\_to\_fah()

        {

        let cel=document.getElementById('tempcel').value;

        let confah=parseFloat(cel)\*9/5+32;

        document.getElementById('fahrenheit').innerHTML+=confah;

        }

        function convert\_fah\_to\_cel()

        {

        let fah=document.getElementById('tempfah').value;

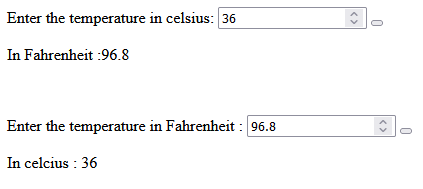
        let concel=(parseFloat(fah)-32)\*5/9;

        document.getElementById('celcius').innerHTML+=concel;

        }

    </script>

</html>



3.

<html>

<title>

    simple interest

</title>

    <body>

        <h3>SIMPLE INTEREST CALCULATION</h3>

        <label>Enter the principal amount</label>

        <input type="text" id="p"><br><br>

        <label>Enter the rate of interest</label>

        <input type="text" id="r"><br><br>

        <label>Enter the no of years</label>

        <input type="text" id="n"><br><br>

        <p id="answer">The calculated simple interest is : </p>

    </body>

    <script>

        function si()

        {

            let principal=prompt("Enter the principal amount ");

            let rate=prompt("Enter the rate of interest");

            let no\_of\_years=prompt("Enter the no of years");

            let si=parseFloat(principal)\*parseFloat(rate)\*parseFloat(no\_of\_years)/100;

            alert(si);

        }

        si()

        function ci()

        {

            let principal=prompt("Enter the principal amount ");

            let rate=prompt("Enter the rate of interest");

            let no\_of\_years=prompt("Enter the no of years");

            let ci=parseFloat(principal)\*((1+parseFloat(rate)/100)\*\*parseFloat(no\_of\_years));

            alert(ci-principal);

        }

        ci();

    </script>

</html>

4.

<html>

    <title>

        distance between two points

    </title>

    <script>

        function distance()

        {

            let x1=prompt("Enter the x1");

            let x2=prompt("Enter the x2");

            let y1=prompt("Enter the y1");

            let y2=prompt("Enter the y2");

            let dist=Math.sqrt((parseFloat(x2)-parseFloat(x1))\*\*2+(parseFloat(y2)-parseFloat(y1))\*\*2);

            alert("The distance between two points is :"+dist);

        }

        distance();

    </script>

</html>

5.

<html>

    <title>

        Area of triangle

    </title>

    <script>

        let b=prompt("Enter the length of base");

        let h=prompt("Enter the length of height");

        let area=parseFloat(b)\*parseFloat(h)/2;

        alert("The area is "+area);

    </script>

</html>

6.

<!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">

</head>

<body>

    a = <input type="text" id="a">

    b = <input type="text" id="b">

    <button id="go">Go</button>

    <script>

        btn = document.getElementById('go')

        btn.addEventListener("click", function () {

            let a = parseInt(document.getElementById('a').value)

            let b = parseInt(document.getElementById('b').value)

            alert(`The sum is ${a + b}, the difference is ${a - b}, the product is ${a \* b} and the quotient is ${a / b}.`)

        })

    </script>

</body>

</html>

7.

<!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">

</head>

<body>

    a = <input type="text" id="a">

    b = <input type="text" id="b">

    c = <input type="text" id="c">

    <button id="go">Go</button>

    <script>

        btn = document.getElementById('go')

        btn.addEventListener("click", function () {

            let a = parseInt(document.getElementById('a').value)

            let b = parseInt(document.getElementById('b').value)

            let c = parseInt(document.getElementById('c').value)

            alert(`The sum is ${(a + b + c)}, the average is ${(a + b + c) / 3}, the product is ${a \* b \* c}, the min is ${Math.min(a, b, c)} and the max is ${Math.max(a, b, c)}.`)

        })

    </script>

</body>

</html>

8.

<!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">

</head>

<body>

    a = <input type="text" id="a"><br>

    b = <input type="text" id="b"><br>

    c = <input type="text" id="c"><br>

    d = <input type="text" id="d"><br>

    e = <input type="text" id="e"><br>

    <button id="go">Go</button>

    <h4>The counts are:</h4>

    <p class="result"></p>

    <script>

        fiveElemArray = new Array();

        btn = document.getElementById('go')

        btn.addEventListener("click", function () {

            let a = parseInt(document.getElementById('a').value)

            let b = parseInt(document.getElementById('b').value)

            let c = parseInt(document.getElementById('c').value)

            let d = parseInt(document.getElementById('d').value)

            let e = parseInt(document.getElementById('e').value)

            fiveElemArray.push(a, b, c, d, e)

            let negCount = 0

            let posCount = 0

            let zeroCount = 0

            for (let i = 0; i < fiveElemArray.length; i++) {

                // console.log(`Before ${i}th iteration :`, negCount, zeroCount, posCount)

                if (fiveElemArray[i] > 0) {

                    posCount++

                }

                else if (fiveElemArray[i] < 0) {

                    negCount++

                }

                else {

                    zeroCount++

                }

                // console.log(`After ${i}th iteration :`, negCount, zeroCount, posCount)

            }

            document.querySelector('.result').innerHTML = `+veCount = ${posCount} | -veCount = ${negCount} | 0Count = ${zeroCount}.`

        })

    </script>

</body>

</html>

9.

<!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">

</head>

<body>

    a = <input type="text" id="a">

    b = <input type="text" id="b">

    <button id="go">Go</button>

    <h4>Is 'a' a multiple of 'b'?</h4>

    <p class="result"></p>

    <script>

        btn = document.getElementById('go')

        result = document.querySelector('.result')

        btn.addEventListener("click", function () {

            let a = parseInt(document.getElementById('a').value)

            let b = parseInt(document.getElementById('b').value)

            if (a % b == 0) {

                result.innerHTML = `YES`

            }

            else {

                result.innerHTML = `NO`

            }

        })

    </script>

</body>

</html>

10.

<!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">

</head>

<body>

    number square cube

    <p class="text"></p>

    <script>

        text = document.querySelector('.text')

        text.style.color = 'red';

        text.style.wordSpacing = '2.6rem';

        for (let i = 0; i <= 10; i++) {

            text.innerHTML += `${i} ${i \* i} ${i \* i \* i}<br>`

        }

    </script>

</body>

</html>

11.

<!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">

</head>

<body>

    number square cube

    <p class="text"></p>

    <script>

        text = document.querySelector('.text')

        text.style.color = 'red';

        text.style.wordSpacing = '2.6rem';

        for (let i = 0; i <= 10; i++) {

            text.innerHTML += `${i} ${i \* i} ${i \* i \* i}<br>`

        }

    </script>

</body>

</html>

12.

<!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">

</head>

<body>

    StringToSearch = <input type="text" id="input"><br>

    subStr = <input type="text" id="subStr"><br>

    posi = <input type="text" id="posi"><br>

    <button class="go">Go</button>

    <div class="result-container">

        String To Search :

        <h1 class="sts"></h1>

        <p class="result">

        </p>

    </div>

    <script>

        goBtn = document.querySelector('.go');

        goBtn.addEventListener('click', function () {

            stringToSearch = document.getElementById('input').value

            subStr = document.getElementById('subStr').value

            posi = parseInt(document.getElementById('posi').value)

            let firstOcc = stringToSearch.indexOf(subStr)

            let lastOcc = stringToSearch.lastIndexOf(subStr)

            let firstOccFrom = stringToSearch.indexOf(subStr, posi)

            let lastOccFrom = stringToSearch.indexOf(subStr, posi)

            let sts = document.querySelector('.sts')

            let result = document.querySelector('.result')

            sts.innerHTML = stringToSearch

            result.innerHTML = `First Occurance = ${firstOcc}.<br>

                                Last Occurance = ${lastOcc}.<br>

                                First Occurance from ${posi}th index = ${firstOccFrom}.<br>

                                Last Occurance from ${posi}th index = ${lastOccFrom}.`

        })

    </script>

</body>

</html>

13.

<!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">

</head>

<body>

    <h3 class="date">2022-04-03</h3>

    <script>

        let dateEl = document.querySelector('.date')

        let da = new Date(dateEl.innerHTML)

        dateEl.innerHTML += da + "<br>" + da.toDateString() + "<br>" + da.toISOString() + "<br>" + da.toTimeString()

    </script>

</body>

</html>

14.

<!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">

</head>

<body>

    <textarea name="result" id="result" cols="30" rows="10"></textarea>

    <script>

        textArea = document.getElementById('result')

        textArea.value = `Math library and its method showcase:\n Math.abs(-5) = ${Math.abs(-5)}\n Math.ceil(-5.5) = ${Math.ceil(-5.5)}\n Math.floor(-5.5) = ${Math.floor(-5.5)}\n Math.pow(2,2) = ${Math.pow(2, 2)}\n Math.sqrt(4) = ${Math.sqrt(4)}\n Math.round(5.5) = ${Math.round(5.5)}\n Math.random() = ${Math.random()}`

    </script>

</body>

</html>

15.

<!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">

</head>

<body>

    <script>

        one = prompt("Enter first value", "1")

        two = prompt("Enter second value", "2")

        three = prompt("Enter third value", "3")

        four = prompt("Enter fourth value", "4")

        five = prompt("Enter fifth value", "5")

        six = prompt("Enter sixth value", "6")

        seven = prompt("Enter seventh value", "7")

        eight = prompt("Enter eighth value", "8")

        nine = prompt("Enter ninth value", "9")

        ten = prompt("Enter tenth value", "10")

        alert(`The largest of the entered values is ${Math.max(one, two, three, four, five, six, seven, eight, nine, ten)}.`)

    </script>

</body>

</html>

16.

<!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">

</head>

<body>

    <h1 class="result"></h1>

    <script>

        let prices = [2.98, 4.50, 9.98, 4.49, 6.87]

        let soldItems = [0, 0, 0, 0, 0]

        let sentinel = 0

        while (sentinel >= 0) {

            let pno = prompt("Enter the product number: ", "")

            sentinel = pno

            if (sentinel < 0) {

                alert("Input for ending the input entered. Showing results now...")

                break

            }

            else if (sentinel > 5) {

                alert("You've entered a wrong product number.")

                break

            }

            let qno = parseInt(prompt("Enter the quantity for the day: ", ""))

            soldItems[pno - 1] += qno

        }

        console.log(soldItems)

        let totalPrice = 0

        for (let i = 0; i < soldItems.length; i++) {

            console.log(`Inside ${totalPrice}`)

            totalPrice += soldItems[i] \* prices[i]

        }

        document.querySelector('.result').innerHTML = `The total retail value of this week is \$${totalPrice}.`

    </script>

</body>

</html>

17.

<!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">

</head>

<body>

    <h1 class="result"></h1>

    <script>

        empRate = [20, 40, 10]

        empHours = [40, 60, 30]

        let payEarned = 0

        for (let i = 0; i < empRate.length; i++) {

            let tempHours = empHours[i]

            if (tempHours <= 40) {

                payEarned += tempHours \* empRate[i]

            }

            else {

                payEarned += 40 \* empRate[i]

                payEarned += (tempHours - 40) \* empRate[i] / 2

            }

            document.querySelector('.result').innerHTML += `Total pay for Employee${i + 1} = ${payEarned}.<br>`

            payEarned = 0

        }

    </script>

</body>

</html>

18.

<!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">

</head>

<body>

    <h1 class="result">

        Encrypted integer:

    </h1>

    <script>

        let int = window.prompt("Enter an four-digit integer: ");

        let digits = int.toString(10).split('').map(Number);

        for (let i = 0; i < digits.length; i++) {

            digits[i] = (digits[i] + 7) % 10;

        }

        let temp = digits[0];

        digits[0] = digits[2];

        digits[2] = temp;

        temp = digits[1];

        digits[1] = digits[3];

        digits[3] = temp;

        document.querySelector('.result').innerHTML += `${digits.join('')}.<br>`

    </script>

</body>

</html>

19.

<!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">

</head>

<body>

    <h1 class="result">

    </h1>

    <script>

        let noOfVal = prompt("Enter the number of values you're going to enter: ", "")

        listOfVal = []

        for (let i = 0; i < noOfVal; i++) {

            listOfVal.push(parseInt(prompt("Enter the value", "")))

        }

        let minVal = 999999

        for (let i = 0; i < listOfVal.length; i++) {

            if (listOfVal[i] < minVal) {

                minVal = listOfVal[i]

            }

        }

        document.querySelector('.result').innerHTML = `The min of the entered values are ${minVal}.`

    </script>

</body>

</html>

20.

<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">

</head>

<body>

    <h1>Check whether a number is palindrome or not</h1>

    <p id="result"></p>

    <script>

            let a = prompt('Enter a five digit number')

            let revno=a.split('').reverse().join('')

            if (a==revno) {

                document.getElementById('result').innerHTML = 'YES'

            }

            else {

                document.getElementById('result').innerHTML = 'NO'

            }

    </script>

</body>

</html>