**Program: :**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Document</title>

</head>

<body>

<script>

var multi

var number = parseInt(prompt('Enter an integer: '));

for(let i=1;i<=10;i++) {

multi= number\*i ;

document.write("Number:" +multi +"<br>");

}

</script>

</body>

</html>

**program**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Area of triangle</title>

</head>

<body>

<script>

var a=5;

var b=12;

var area;

area=0.5\*a\*b;

document.write("area of triangle:" +area +"<br>");

var rect;

rect=a\*b;

document.write("Area of rectangle:" +rect +"<br>");

var r=6;

var circle;

circle=3.14\*r\*r;

document.write("Area of Circle:" +circle +"<br>");

</script>

</body>

</html>

**program**

<!DOCTYPE html>

<html>

<head>

<title>JavaScript program to reverse a given string.</title>

</head>

<body>

<script>

var name=prompt("Enter the name")

function string\_reverse(str)

{

return str.split("").reverse().join("");

}

document.write(string\_reverse(name));

</script>

</body>

</html>

**program**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Compare</title>

</head>

<body>

<script>

const string1='Javascript';

const string2='javascript';

#using UpperCase

const result = string1.toUpperCase()===string2.toUpperCase();

document.write(result +"<br>");

#using LocaleCompare

const result2 = string1.localeCompare(string2);

document.write(result2 +"<br>");

#using Regular Expression

const paragraph ='Webdevelopment is easy language';

const regex = /[asy]/g;

const found = (paragraph.match(regex));

document.write(found);

</script>

</body>

</html>

**program**

<!DOCTYPE html>

<head>

<title> timer </title>

</head>

<body>

<p id = "days"></p>

<script>

// const = new Date().getTime();

const date\_time2 = new Date('August 25, 2023 02:02:13').getTime();

setInterval(function timer(p1, p2) {

const date\_time1 = new Date().getTime();

const diff = date\_time2 - date\_time1;

var days = Math.floor(diff / (1000 \* 60 \* 60 \* 24));

var hours = Math.floor((diff % (1000 \* 60 \* 60 \* 24)) / (1000 \* 60 \* 60));

var minutes = Math.floor((diff % (1000 \* 60 \* 60)) / (1000 \* 60));

var seconds = Math.floor((diff % (1000 \* 60)) / 1000);

document.getElementById("days").innerHTML = days + "d " +hours + "h "+ minutes + "m "+seconds + "s ";

}, 1000);

</script>

</body>

</html>

**Program**

<html>

<head>

<title> array </title>

</head>

<body>

<script>

a=prompt("enter value to be removed");

var arr=[10,654,21,6,2,23,15,32,5,2];

var arr1=[];

// instead of for loop we can directly use arr.splice(arr.indexof(a)) and directly remove it

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

// document.write("entered loop "+i+"<br>");

if(a!=arr[i]) {

arr1.push(arr[i])

}

}

document.write("string after removing "+a+" is "+arr1.toString());

document.write("<br>");

var name=prompt("enter the name to check whether the value is present or not");

if (arr.includes(name)==true) {

document.write(a+ " is present in the code");

document.write("<br>");

}

else {

document.write(name+ " it is not present in the loop");

}

document.write("<br>");

while(arr.length>0) {

arr.pop();

}

document.write("all the values are removed"+arr.toString());

document.write("<br>");

</script>

</body>

</html>

**Program**

<!DOCTYPE html>

<html lang="en">

<head>

<title>exp 7</title>

</head>

<body>

<script>

*function* pushFunction() {

list.push("Four", "Five");

document.write(list);

}// Diver Code

*let* list = ["One", "Two", "Three"];

pushFunction();

</script>

</body>

</html>

**Program**

<html>

<body>

<script>

document.write(" Grouping in Regular Expressions "<b>,"</br>","</br>","</br>");

document.write("Optional Group:","</br>");

let match = 'a'.match(/a(z)?(c)?/);

document.write( match.length ,"</br>"); // 3

document.write( match[0] ,"</br>"); // a (whole match)

document.write( match[1],"</br>" ); // undefined

document.write( match[2] ,"</br>","</br>"); // undefined

</script>

<script>

document.write("Name Capturing Group:","</br>");

let dateRegexp = /(?<year>[0-9]{4})-(?<month>[0-9]{2})-(?<day>[0-9]{2})/;

let str = "2023-07-30";

let groups = str.match(dateRegexp).groups;

document.write(groups.year,"-"); // 2019

document.write(groups.month,"-"); // 04

document.write(groups.day,"</br>","</br>"); // 30

</script>

<script>

document.write("Non Capturing Group:","</br>");

let str1 = "Gogogo John!";

let regexp = /(?:go)+ (\w+)/i;

let result = str1.match(regexp)

document.write( result[0] ,"</br>");

document.write( result[1] ,"</br>"); // John

document.write( result.length,"</br>" ); // 2 (no more items in the array)

</script>

</body>

</head>

</html>

Program

!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>JavaScript Calculator</title></head>

<body>

<div class="container pt-5">

<div class="row ">

<div class="col text-center">

<div class="calculator">

<div class="outInArea">

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

<table>

<tr cellspacing='50'>

<td><button id="sub">MC</button></td>

<td><button>MR</button></td>

<td><button>MS</button></td>

<td><button>M+</button></td>

</tr>

<tr>

<td><button>(</button></td>

<td><button>)</button></td>

<td><button id="clear">C</button></td>

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

</tr>

<tr>

<td><button>7</button></td>

<td><button>8</button></td>

<td><button>9</button></td>

<td><button>X</button></td>

</tr>

<tr>

<td><button>4</button></td>

<td><button>5</button></td>

<td><button>6</button></td>

<td><button>-</button></td>

</tr>

<tr>

<td><button>1</button></td>

<td><button>2</button></td>

<td><button>3</button></td>

<td><button>+</button></td>

</tr>

<tr>

<td colspan="2"><button>0</button></td>

<td><button>.</button></td>

<td>

<p id="equal">=</p>

</td>

</tr>

</table>

</div>

</div>

</div>

</div>

<style>

body {

background: #5b5959;

}

button:focus {

outline: none;

}

button {

border: none;

background-color: transparent

}

.calculator {

display: inline-block;

background: #17181a;

padding: 25px 20px;

margin-top: 2rem;

color: #fff;

width: 350px;

text-align: center;

border-radius: 5px;

}

input {

width: 100%;

outline: none;

border: none;

padding: 10px 10px;

}

#input {

border-radius: 5px;

height: 90px;

font-size: 25px;

color: #3bae3f;

}

#output {

font-size: 22px;

border-radius: 0 0 5px 5px;

}

.calculator table {

margin: auto;

30 | P a g e

}

table {

margin-top: 10px !important;

}

table tr td {

padding: 10px 12px;

background: repeating-linear-gradient(320deg, black, transparent 100px);

}

table tr td button {

padding: 10px 15px;

color: turquoise;

}

table tr td p {

padding: 10px 15px;

color: turquoise;

margin: 0;

cursor: pointer;

}

</style>

<script>

const input = document.getElementById('input'),

clear = document.getElementById('clear'),

equal = document.getElementById('equal'),

allButton = document.querySelectorAll('button');

for (let button of allButton) {

button.addEventListener('click', (e) => {

let buttonText = e.target.innerText;

if (buttonText == 'X') buttonText = 'x'

input.value += buttonText

equal.addEventListener('click', () => {

inputs = input.value;

if (inputs.includes('x')) inputs = inputs.replace('x', '\*')

input.value = eval(inputs);

})

})

}

clear.addEventListener('click', () => input.value = '')

</script>

</body>

</html>

*Program:*

<!DOCTYPE html>

<html lang="en">

<head>

<title>Project 1</title>

<script>

function changeBGColorRed(){

document.body.style.background="red";

}

function changeBGColorBlue(){

document.body.style.background="blue";

}

</script>

</head>

<body>

<div> <!--MAin Code of the Experiment-->

<button onmouseover="changeBGColorRed();">Red</button>

<button onmouseover="changeBGColorBlue();">Blue</button>

</div>

<!—Extra Code for any Website-->

</body>

</html>

**Program**

<html>

<body>

<script>

document.write(" Grouping in Regular Expressions

"<b>,"</br>","</br>","</br>");

document.write("Optional Group:","</br>");

let match = 'a'.match(/a(z)?(c)?/);

document.write( match.length ,"</br>"); // 3

document.write( match[0] ,"</br>"); // a (whole match)

document.write( match[1],"</br>" ); // undefined

document.write( match[2] ,"</br>","</br>"); // undefined

</script>

<script>

document.write("Name Capturing Group:","</br>");

let dateRegexp = /(?<year>[0-9]{4})-(?<month>[0-9]{2})-(?<day>[0-9]{2})/;

let str = "2023-07-30";

let groups = str.match(dateRegexp).groups;

document.write(groups.year,"-"); // 2019

document.write(groups.month,"-"); // 04

document.write(groups.day,"</br>","</br>"); // 30

</script>

<script>

document.write("Non Capturing Group:","</br>");

let str1 = "Gogogo John!";

let regexp = /(?:go)+ (\w+)/i;

let result = str1.match(regexp)

document.write( result[0] ,"</br>");

document.write( result[1] ,"</br>"); // John

document.write( result.length,"</br>" ); // 2 (no more items in the array)

</script>

</body>

</head>

</html>