1.

-->

function myFun(num){

if(num%2 ===0 ){

return "even";

}

else{

return "odd";

}

}

var x=myFun(4);

console.log(x);

2.

-->

function max( a, b, c){

return (a>b)?((a>c)?a:c):((b>c)?b:c);

}

var num=max(3,4,5);

console.log(num);

3.

-->

var head=0;

var tail=0;

function countFlips(num){

for(i=0;i<num;i++){

if (Math.random()<0.50){

head++;

}

else{

tail++

}

}

}

countFlips(10);

console.log("Heads count:-"+ head + " Tails count:-" + tail);

4.

-->

function countHeadFlipsFraction(num){

var head=0;

for(i=0;i<num;i++){

if (Math.random()<0.50){

head++;

}

}

return (head/num);

}

var x=countHeadFlipsFraction(10);

console.log("Heads count fraction: " + x);

5.

-->

Function padChars(){

Var result=””;

For(i=0;i<x;i++){

Result+=y;

}

Console.log(result);

}

padChar(x,y);

6.

->

function roll(){

    var a=0;

    a=Math.floor(Math.random() \* 6) + 1;

    while (a < 6) {

        count++;

        console.log("Die:-" + a);

        a=Math.floor(Math.random() \* 6) + 1;

  }

  console.log("final dies:-" + a);

}

var count=0;

roll();

console.log("count:- " + count);

7.

-->

function loadContent(){

    var h1=document.getElementById("content");

    if(Math.random()<0.5){

        h1.textContent="Have nice Day";

    }

    else{

        h1.textContent="Have Bad Day!";

    }

    h1.style.color="Red";

    h1.style.textAlign="center";

}

loadContent();

<!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>Document</title>

</head>

<body>

    <h1 id="content"></h1>

    <script src="test.js"></script>

</body>

</html>

--------------------------------------------------------------------------------------------------------------------------------------

1.

🡪

var arr=[Math.random(),Math.random(),Math.random(),Math.random()];

console.log(arr);

2.

->

var hundredNums=[];

for(i=0;i<99;i++){

    hundredNums[i]=Math.random();

}

console.log(hundredNums);

3.

->

var strArr=["1.2","2.2","3.4"];

var numArr=strArr.map(Number);

console.log(numArr);

4.

->

1.,2.

->

var x=5;

Console.log(x);

3.

->

function half(x){

return (x/2);

}

Console.log(4);

4.

->

function half(x){

return (x/2);

}

Console.log(5);

o/p:-2.5

5.

->

function seven(){

x=7;

return(x);

}

Console.log(seven());

o/p:-7

6.

->

function calculation(a,b,c){

return(a+b)/c;

}

console.log(calculation(3,3,4));

o/p:-

infinite

7.

->

Loaded in js file.

function addNum(a,b){

return a+b;

}

function subNum(a,b){

return a-b;

}

Function call from browser:

Console.log(addNum(3,3));

Console.log(subNum(3,3));

8.

->

function checkNum(num){

return (arr[num%2]);

}

var arr=["even","odd"];

console.log( checkNum(5));

1.

->

document.write("Hello wold");

2.

->

var no = prompt("Enter a number: ");

var name1=document.getElementById("name");

name1.textContent='Hello ' + no;

name1.style.color="red";

name1.style.textAlign="center";

3.

->

function greeting(){

    var name1=document.getElementById("name");

    if(no==="Alice"){

        name1.textContent="hello Bob this is " + no;

    }

    else{

        name1.textContent="hello Alice this is " + no;

    }

    name1.style.color="red";

    name1.style.textAlign="center";

}

var no = prompt("Enter a name: ");

greeting();

4.

->

function sumOfNum(){

    sum=0;

    for(i=1;i<=num;i++){

        sum+=i;

    }

    return sum;

}

var num=prompt("Enter Number for sum of numbers");

console.log(sumOfNum());

5.

->

var num=prompt("Enter Number");

sum=0;

for(i=1;i<=num;i++){

    if(i%3==0 || i%5==0){

        sum+=i;

    }

}

console.log(sum);

6.

->

var str=2;

switch (str){

    case 1:

        var num=prompt("Enter num for sum");

        sum=0;

        for(i=1;i<num;i++){

            sum+=i;

        }

        console.log(sum);

        break;

    case 2:

        var num=prompt("Enter num for product");

        pro=1;

        for(i=1;i<num;i++){

            pro\*=i;

        }

        console.log(pro);

        break;

    default:

        console.log("Wrong choice");

        break;

}

// var str=prompt("Enter 1. for sum of nums and 2. product of nums ");

7.

->

var num=12;

for(i=1;i<=num;i++){

    sumOfTable=i\*i;

}

console.log(sumOfTable);

8.

->

var num1=prompt("Enter number");

console.log(2);

for(i=2;i<=num1;i++){

    flag=0

    for(j=2;j<num1;j++){

        if(i%j==0){

            flag=1;

            break;

        }

        else{

            console.log(i);

        }

    }

}

9.

->

function game(userNumber){

var y = Math.floor(Math.random() \* 10 + 1);

var guess = 1;

var x = userNumber;

if(x == y)

{

console.log("CONGRATULATIONS!!! YOU GUESSED IT RIGHT IN "

+ guess + " GUESS ");

}

else if(x > y)

{

guess++;

console.log("OOPS SORRY!! TRY A SMALLER NUMBER");

}

else

{

guess++;

console.log("OOPS SORRY!! TRY A GREATER NUMBER")

}

}

10.

->

var yearsPrinted = 0;

var currentYear = 2021;

function leapYears() {

while (yearsPrinted < 20) {if ((currentYear % 4 === 0) && (!((currentYear % 100===0) && (currentYear % 400 !== 0)))) {

console.log(currentYear);

yearsPrinted++;

currentYear++;

} else {

currentYear++;

}

}

}

11.

->

Function largestElement(list){

var largest= 0;

for (i=0; i<=largest;i++){

if (array[i]>largest) {

var largest=array[i];

}

}

console.log(largest);

}

Var list=[10,78,67,98];

largestElement(list);

12.

->

function reverseArray(arr) {

var newArray = [];

for (var i = arr.length - 1; i >= 0; i--) {

newArray.push(arr[i]);

}

console.log(newArray);

}

var arr=["if", "never", "sometimes", "always", "maybe", "no", "yes"];

reverseArray(arr);

13.

->

function search(list,number){

var flag = 0;

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

if(number == array[i])

flag = 1;

}

if(flag == 1)

console.log('Element Found');

else

console.log('Element Not Found');

}

var array = [12, 5, 8, 3, 17];

search(array,8);

14.

->

var array = [1,2,3,4,5];

function odd(array){

console.log(array.filter(function(el, ind){

return ind % 2 === 0;

}));

15.

->

function runSum(a) {

var result = [a[0]];

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

result[i] = result[i - 1] + a[i];

}

return result;

};

var a=[7,6,7,5,7,7,];

var result =runSum(a);

console.log(result);

16.

->

function checkPalindrome(string) {

var len = string.length;

for (var i = 0; i < len / 2; i++) {

if (string[i] !== string[len - 1 - i]) {

return 'It is not a palindrome';

}

}

return 'It is a palindrome';

}

checkPalindrome("madam");

17.

->

For Loop:

function runSum(array) {

var s = 0;

for (i = 0; i < array.length; i += 1)

{

s += array[i];

}

console.log(s);

};

var array = [1, 2, 3, 4, 5, 6];

runSum(array);

While Loop:

function runSum(array) {

var s = 0;

var i = 0;

while (i < array.length)

{

s += array[i];

i++;

}

console.log(s);

};

var array = [1, 2, 3, 4, 5, 6];

runSum(array);

Using Recursion:

var sum = function(array) {

if(array.length === 0){

return 0;

}

function add(array, i){

if(i === array.length-1){

return array[i];

}

return array[i] + add(array, i+1);

}

return add(array, 0);

};

sum([1, 2, 3, 4, 5, 6])

18:

->

function perfect(array){

for(i=0;i<=20;i++){

var result = Math.sqrt(array[i]);

if(Number.isInteger(result)){

console.log(array[i]);

}

}

}

19.

->

function con(array1,array2){

console.log(array1.concat(array2));

}

var array1 = ["a","b","c"];

var array2 = [1,2,3];

con(array1,array2);

20.

->

var num=[1,2,3];

var char=['a','b','c'];

var numChar=[];

i=0;

while(i<num.length || i<char.length){

    numChar.push(num[i]);

    numChar.push(char[i]);

    i++;

}

console.log(numChar);

21.

->

var num1=[1,4,6];

var num2=[2,3,5];

var num3=num1.concat(num2);

console.log(num3.sort());

22.

->

var num1=[1,2,3,4,5,6];

for(i=0;i<2;i++){

var n=num1.shift();

num1.push(n);

}

console.log(num1);

23.

->

var n1=1;

var n2=1;

var n3=0;

console.log(n1);

console.log(n2);

for(i=2;i<=100;i++){

n3=n1+n2;

console.log(n3);

n1=n2;

n2=n3;

}

24.

->

function retArrOfNum(num){

i=0;

r=0;

while(num>0) {

r=num%10;

num=parseInt(num/10);

arr[i]=r;

i++;

}

}

var arr=[];

retArrOfNum(2342);

console.log(arr);

25.

->

26.

->

27.

->

Selection Sort:

function selectionSort(arr) {

var minIdx,

aux,

len = arr.length;

for ( i = 0; i < len; i++) {

minIdx = i;

for ( j = i + 1; j < len; j++) {

if (arr[j] < arr[minIdx]) {

minIdx = j;

}

}

aux = arr[i];

arr[i] = arr[minIdx];

arr[minIdx] = aux;

}

return arr;

console.log(arr);

}

var array = [6,8,3,7,4,9];

selectionSort(array);

1.

->

var btn1=document.getElementById("input");

var data=document.getElementById("Fahrenheit");

btn1.onclick=function(){

    var msg=document.getElementById("text");

    var celsius=0;

    celsius = parseInt(((data.value-32) \* 5 / 9));

    msg.innerHTML="Temperature in Celsius:" + celsius;

}

var main=document.getElementById("temp");

main.style.backgroundColor="red";

<!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>Document</title>

    <style>

        .temp{

            display: block;

  margin-left: auto;

  margin-right: auto;

  width: 40%;

        }

    </style>

</head>

<body>

    <div class="temp">

    <label for="Fahrenheit">Enter temperature in Fahrenheit:</label>

    <input type="number" name="Fahrenheit" id="Fahrenheit">

    <br>

    <input type="button" value="Show" id="input">

    <h3 id="text"></h3>

    </div>

    <script src="test.js"></script>

</body>

</html>

2.

->

function create(){

    var arr=document.getElementsByTagName("input");

    var paras=document.getElementById("main");

    var p=[];

    for(i=0;i<arr.length;i++){

        var result="";

        if(arr[i].value<=30 && arr[i].value>0){

            for(j=0;j<arr[i].value;j++){

            result+='\*';

            }

        }

        else{

            alert("Enter number in 1-30 for input" + i++);

        }

        p[i]=document.createElement("p");

        paras.appendChild(p[i]);

        p[i].textContent=""+result;

    }

}

document.getElementById("button").addEventListener("click",create);

<!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>Document</title>

    <style>

        .temp{

            display: block;

  margin-left: auto;

  margin-right: auto;

  width: 40%;

        }

    </style>

</head>

<body>

    <label for="">Enter input1</label>

    <input type="number" id="input1"><br>

    <label for="">Enter input2</label>

    <input type="number" id="input2"><br>

    <label for="">Enter input3</label>

    <input type="number" id="input3"><br>

    <button id="button">Click</button>

    <div id="main">

    </div>

    <script src="test.js"></script>

</body>

</html>

3.

->

function makeTable(){

var table=document.getElementById("main-table");

var colCount=document.getElementById("main-col");

var rowCount=document.getElementById("main-row");

console.log(rowCount+" "+colCount);

var row=[];

var col=[];

for(i=0;i<rowCount.value;i++){

    row[i]=document.createElement("tr");

    table.appendChild(row[i]);

    for(j=0;j<colCount.value;j++){

        col[j]=document.createElement("td");

        row[i].appendChild(col[j]);

        col[j].textContent="col:" + j + "row:" +i;

    }

}

}

document.getElementById("button").addEventListener("click",makeTable);

<!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>Document</title>

    <style>

        .temp{

            display: block;

  margin-left: auto;

  margin-right: auto;

  width: 40%;

        }

    </style>

</head>

<body>

  <label for="main-col">Enter Columns</label>

  <input type="number" id="main-col" name="main-col"><br>

  <label for="main-row">Enter Columns</label>

  <input type="number" id="main-row" name="main-row"><br>

  <button id="button">Create</button>

      <table border="1" id="main-table">

      </table>

    <script src="test.js"></script>

</body>

</html>

4.

->

var calci="";

function setValue(i,k)

{

    // k.target.innerHTML=`<h1>${i}</h1>`

    document.getElementById('title').innerText=i;

    calci=i;

}

function getResutl(nitin) {

    const s=document.getElementsByTagName("input");

    console.log("ss",s)

    if (calci === "add") {

        console.log("add honar");

        var i1 = document.getElementById("input1").value;

        var i2 = document.getElementById('input2').value;

        if(i1==="" || i2==="")

        {

            alert("Please enter all values")

        }

        else

        {

            document.getElementById("result").value = parseInt(i1) + parseInt(i2);

        }

    }

    else if (calci === "sub") {

        var i1 = document.getElementById("input1").value;

        var i2 = document.getElementById('input2').value;

        if(i1==="" || i2==="")

        {

            alert("Please enter all values")

        }

        else

        {

            document.getElementById("result").value = i1-i2;

        }

    }

    else if (calci === "mul") {

        var i1 = document.getElementById("input1").value;

        var i2 = document.getElementById('input2').value;

        if(i1==="" || i2==="")

        {

            alert("Please enter all values")

        }

        else

        {

            document.getElementById("result").value = i1\*i2;

        }

     }

    else if (calci === "div") {

        console.log("add honar");

        var i1 = document.getElementById("input1").value;

        var i2 = document.getElementById('input2').value;

        if(i1==="" || i2==="")

        {

            alert("Please enter all values")

        }

        else

        {

            document.getElementById("result").value = i1/i2;

        }

    }

}

Html

<!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>Document</title>

    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

    <style>

        .navbar-default .navbar-nav>li>a {

            color: red;

            border: 1px solid green;

        }

        .a {

            color: blue !important;

        }

    </style>

</head>

<body>

    <h1 id="title">

            Please Select :

    </h1>

    <nav class="navbar navbar-default">

        <div class="container-fluid">

            <div class="navbar-header">

                <a class="navbar-brand" href="#">Functions</a>

            </div>

            <ul class="nav navbar-nav">

                <li><a href="#"  id="add" onclick="setValue('add',event)">1.Add</a></li>

                <li><a href="#" id="sub" onclick="setValue('sub',event)">2.Sub</a></li>

                <li><a href="#" id="Mul" onclick="setValue('mul',event)">3.Mul</a></li>

                <li><a href="#" id="div" onclick="setValue('div',event)">4.div</a></li>

            </ul>

        </div>

    </nav>

    <div id="content1" class="toggle" style="display:none">show the stuff1</div>

    <form>

        <div class="form-group">

            <label for="exampleInputEmail1">Enter First Number</label>

            <input type="text" class="form-control form-control-sm" id="input1" aria-describedby="emailHelp" placeholder="Enter number">

        </div>

        <div class="form-group">

            <label for="exampleInputPassword1">Enter Second Number</label>

            <input type="text" class="form-control" id="input2" placeholder="Enter number">

        </div>

        <div class="form-group">

            <label for="exampleInputPassword1">Result</label>

            <input type="text" class="form-control" id="result" placeholder="Result">

        </div>

        <button type="button" class="btn btn-primary" value=1 onclick=getResutl(event)>Get Result</button>

    </form>

    <script src="./Calculators/test.js"></script>

</body>

</html>

5.

->

Js:

    var elements = document.getElementById("myForm").elements;

function validationForm(e){

    // const formData = new FormData(e.target);

    // const formObject = Object.fromEntries(formData);

    e.preventDefault();

    var elements = document.getElementById("myForm").elements;

    const formData = new FormData(e.target);

    const formObject = Object.fromEntries(formData);

        if(!formObject.email || !formObject.name || !formObject.DeliveryOpt || !formObject.address)

        {

            alert("Please enter all fields")

        }

        else{

            document.getElementById("sum").disabled=false;

            document.getElementById("succ").textContent="Form Submited successfuly";

        }

}

function viewSum(e){

    // var table=document.createElement("table");

var table=document.getElementById("main-table");

// var colCount=2;

// var rowCount=elements.length;

// console.log(rowCount+" "+colCount);

// var row=[];

// var col=[];

// for(i=0;i<rowCount;i++){

//     row[i]=document.createElement("tr");

//     table.appendChild(row[i]);

//     for(j=0;j<colCount;j++){

//         col[j]=document.createElement("td");

//         row[i].appendChild(col[j]);

//         col[j].textContent="col:" + j + "row:" +i;

//     }

// }

    var row1=document.createElement("tr");

    table.appendChild(row1);

    var col11=document.createElement("th");

    var col12=document.createElement("td");

    row1.appendChild(col11);

    row1.appendChild(col12);

    col11.textContent="Name : ";

    col12.textContent= " " +     elements.name.value;

    var row2=document.createElement("tr");

    table.appendChild(row2);

    var col21=document.createElement("th");

    var col22=document.createElement("td");

    row2.appendChild(col21);

    row2.appendChild(col22);

    col21.textContent="Email : ";

    col22.textContent= " " +     elements.email.value;

    var row3=document.createElement("tr");

    table.appendChild(row3);

    var col31=document.createElement("th");

    var col32=document.createElement("td");

    row3.appendChild(col31);

    row3.appendChild(col32);

    col31.textContent="Address : ";

    col32.textContent= " " +     elements.address.value;

    var row5=document.createElement("tr");

    table.appendChild(row5);

    var col51=document.createElement("th");

    var col52=document.createElement("td");

    row5.appendChild(col51);

    row5.appendChild(col52);

    col51.textContent="Delivery : ";

    col52.textContent= " " +     elements.DeliveryOpt.value;

    var row6=document.createElement("tr");

    table.appendChild(row6);

    var col61=document.createElement("th");

    var col62=document.createElement("td");

    row6.appendChild(col61);

    row6.appendChild(col62);

    col61.textContent="TIP : ";

    col62.textContent= " " +     elements.tip.value;

    var row7=document.createElement("tr");

    table.appendChild(row7);

    var col71=document.createElement("th");

    var col72=document.createElement("td");

    row7.appendChild(col71);

    row7.appendChild(col72);

    col71.textContent="Total : ";

    col72.textContent= " " +     ((10+1.5)\*elements.tip.value);

}

Html:

<!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>Document</title>

    <link rel="stylesheet" href="./style.css">

    <!-- CSS only -->

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-+0n0xVW2eSR5OomGNYDnhzAbDsOXxcvSN1TPprVMTNDbiYZCxYbOOl7+AMvyTG2x" crossorigin="anonymous">

<!-- JavaScript Bundle with Popper -->

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.bundle.min.js" integrity="sha384-gtEjrD/SeCtmISkJkNUaaKMoLD0//ElJ19smozuHV6z3Iehds+3Ulb9Bn9Plx0x4" crossorigin="anonymous"></script>

</head>

<body>

    <form class="myForm" id="myForm" onsubmit="validationForm(event)"  >

        <div class="form-group">

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

          <input type="text" name="name" class="form-control" placeholder="Enter Name" id="name">

        </div>

        <div class="form-group">

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

          <input type="email" name="email" class="form-control" placeholder="Enter Email" id="email">

        </div>

        <h4>Toppings</h4>

        <div class="form-check form-check-inline">

            <input class="form-check-input" type="checkbox" id="inlineCheckbox1" value="2" name="checkbox1">

            <label class="form-check-label" for="inlineCheckbox1">Extra Cheese</label>

          </div>

          <div class="form-check form-check-inline">

            <input class="form-check-input" type="checkbox" id="inlineCheckbox2" value="Pepperoni" name="checkbox2">

            <label class="form-check-label" for="inlineCheckbox2">Pepperoni</label>

          </div>

          <div class="form-check form-check-inline">

            <input class="form-check-input" type="checkbox" id="inlineCheckbox3" value="Mushrooms" name="checkbox3">

            <label class="form-check-label" for="inlineCheckbox3">Mushrooms</label>

          </div>

          <div class="form-check form-check-inline">

            <input class="form-check-input" type="checkbox" id="inlineCheckbox3" value="Onions" name="checkbox4">

            <label class="form-check-label" for="inlineCheckbox3">Onions</label>

          </div>

          <br>

          <h4>Payment Option</h4>

          <div class="form-check form-check-inline">

            <input class="form-check-input" type="radio" name="DeliveryOpt" id="inlineRadio1" value="cod">

            <label class="form-check-label" for="inlineRadio1">Cash On Delivery</label>

          </div>

          <div class="form-check form-check-inline">

            <input class="form-check-input" type="radio" name="DeliveryOpt" id="inlineRadio2" value="online">

            <label class="form-check-label" for="inlineRadio2">Online</label>

          </div>

          <br><br>

          <label for="tip">TIP</label>

         <input type="number" name="tip" min="0" max="100" id="myPercent" step="10" placeholder="%"/><br><br>

         <div class="form-group">

            <label for="exampleFormControlTextarea1">ADDRESS</label>

            <textarea class="form-control" id="exampleFormControlTextarea1" rows="3" name="address" ></textarea>

          </div><br>

          <button class="btn btn-primary" type="submit" value="Submit" id="submit"  >Submit</button>

          <button class="btn btn-primary" type="reset">Reset</button>

          <button class="btn btn-primary" type="button" id="sum" disabled=true onclick="viewSum(event)">Show Summary</button>

        <p id="succ" ></p>

        <table   id="main-table" style="border: 1px solid; margin: 20px 20px;"></table>

      </form>

      <script src="test.js"></script>

</body>

</html>

Css:

\*{

    padding: 0;

    margin: 0;

    box-sizing: border-box;

}

.center{

    margin: 20px 20px;

    width: 80%;

}

.col{column-width: 300px;

    margin: 20px 20px;

}

.form-check-inline{

 margin: 50px 20px;

 padding-left: 20px;

}