**JAVA SCRIPT**

Basics: -

# JavaScript is a dynamically typed language

# JavaScript is a scripting or programming language that allows you to implement complex features on web pages

VARIABLES: -

# A VARIABLE IS A PROGRAMING NAMED WHICH IS A STORGAE LOCATION OF MEMORY THAT HOLDS VALUE

# IN JS WE CAN CHNGE THE VALUES IN DURRATION OF PROGRAM

# TYPE OF VARIABLE; -

# VAR = RE-DECLARATION, RE-ASSIGN //GLOBAL SCOPE // CAN USE ANYWHERE IN CODE

# LET = NO-RE-DECLARATION, RE-ASSIGN //BLOCK SCOPE // CAN ONLY USE INSIDE OF IT'S {}

# CONST = NO-RE-DECLARATION, NO-RE-ASSIGN //BLOCK SCOPE // CAN ONLY USE INSIDE OF IT'S {}

CODE;--

var a= 16;

let b= "shriyanhi";

{

    var a ='this'  //var is not a block booked

    console.log(b)

    let b ='this'   //let is a block booked

    console.log(b)

}

console.log(b)

const author= "shriyanshi"; // because constant can’t be change

let author = 5; //can’t do this

Conditional statement: -

When we need to solve any condition, we use conditional statement

Ex: -

If, if-else (on condition), ladder if else, nested if else

Q- write a program to see number is even or not? ///see how many ways a code can be solved

let a = parseInt(prompt("enter a number:"))

if(a%2==0)

{

    alert("even")

}

else{

    alert("odd")

}

Q- write a program to see voter is eligible or not?

let a = parseInt(prompt("enter your age:"))

if(a>=18)

{

    alert("eligible")

}

else {

    alert ("not eligible")

}

Else if

Q- write a program to see positive negative or neutral number?

let a = parseInt(prompt("enter a number:"))

if(a>0)

{

    alert("positive")

}

else if(a<0)

{

    alert("negative")

}

else {

    alert("neutral")

}

Q- write a program to make calculator?

let a = parseInt(prompt("enter a number1:"))

let b = parseInt(prompt("enter a number2:"))

let c = parseInt(prompt("enter a sign 1 for addition 2 for subtraction 3 for division 4 for multiplication  :"))

if(c==1)

{

    alert(a+b)

}

else if(c==2)

{

    alert(a-b)

}

else if(c==3)

    {

        alert(a/b)

    }

else if(c==4)

{

    alert(a\*b)

}

else {

    alert ("wrong input”) }

Q- write a program to check he is voting for eligible and Indian or not?

let a = parseInt(prompt("enter your age:"))

if(a>=18)

{

    let b = parseInt(prompt("enter 1 if u r indian :"))

    if(b==1)

    {

        alert("u can vote")

    }

    else

    {

        alert("u can't vote")

    }

}

else{

    alert("try agin after later")

}

Form validation: -

Q- write a program to check he is voting for eligible and Indian or not?

Html:

    <form action="">

        <label for="">Name</label>

        <input type="text" id="name" placeholder="enter name"> <br><br>

        <label for="">Age</label>

        <input type="text" id="age" placeholder="enter name"> <br><br>

        <label for="">Contect</label>

        <input type="text" id="contect" placeholder="enter name"> <br><br>

        <label for="">Email</label>

        <input type="text" id="email" placeholder="enter name"> <br><br>

        <input type="submit">

    </form>

js:

function validate(){

    let name= document.querySelector('#name').value //v must be small  //span tag ??

    let age= document.querySelector('#age').value

    let contect= document.querySelector('#contect').value

    let email= document.querySelector('#email').value

    if(name==""){

        alert("plese fill the field")

        document.querySelector('#name').focus()

        return false //to stop form to submit

    }

    else if(age==""){

        alert("plese fill the field")

        document.querySelector('#age').focus()

        return false //to stop form to submit

        }

   else if(isNaN(age)){                                 //isNaN is a function which is predifine function used to tell thats this feald must contain number onlyy

        alert("plese enter number only")

        document.querySelector('#age').focus()

        return false //to stop form to submit

        }

   else if(contect==""){

        alert("plese fill the field")

        document.querySelector('#contect').focus()

        return false //to stop form to submit

        }

   else if(isNaN(contect)){                             //isNaN is a function which is predifine function used to tell thats this feald must contain number onlyy

        alert("plese fill the field1")

        document.querySelector('#contect').focus()

        return false //to stop form to submit

        }

   else if(contect.length>10 || contect.length<10){

        alert("must contain only 10 number ")

        document.querySelector('#contect').focus()

        return false //to stop form to submit

   }

   else if(email==""){

        alert("plese fill the field2")

        document.querySelector('#email').focus()

        return false //to stop form to submit

   }

   else if(!(email.include('@'))){                        ///its an function of string (to include naything in string)

    alert("plese fill valid email")

    document.querySelector('#email').focus()

    return false //to stop form to submit

   }

}

interval: -

Q- write a program to make stopwatch?

Html:

<h1 id="head">0</h1>

    <button onclick="start()">start</button>

    <button onclick="stop()">stop</button>

js:

let st

function start(){

     let head = document.querySelector('#head')

     let num=0

     st = setInterval(()=>{head.innerHTML=num++},1000)    //accept two argument

}

function stop(){

     clearInterval(st)

}

setTimeout(()=>alert("settimeout call"),2000)    //type of window we get whenn we visit any website like a form

Events: -

Onclick event inside a js

Html:

<button class="btn1">on click</button>

js:

// addEventliatener is accept two argument =event and function

let btn1 = document.querySelector('.btn1')

btn1.addEventListener('click',function(){alert("clicked")})

Q- make a button it show cybrom and aother butoon and cybrom remove?

DESTRUCTURING OF ARRAY: -

SPREAD OPERATOR: -