**JavaScript Control OverFLow:**

* If else

Iif (hour >= 6 && hour < 12) {

    console.log('Good morning');

}

else if (hour >= 12 && hour < 18) {

    console.log ('Good afternoon');

}

else if (hour >= 18 && hour <25) {

    console.log ('Good Evening');

}

else {

    console.log ('invalid');

}

* Switch Case

let role = 'Pro';

switch (role) {

    case 'guest':

        console.log('Guest User');

        break;

    case 'Modrate':

        console.log('Modrate User');

        break;

    case  'Pro':

        console.log ('Pro user');

        break;

    default:

        console.log('unknown User');

}

* For Loop

For ( initialization ; Condition ; increment expression)

for ( i = 0 ; i < 5 ; i++)

    console.log('Hello world' , i);

//

for ( i = 1 ; i <= 5 ; i++)

    if (i % 2 !==0)

    console.log (i);

* While Loop

While (condition)

 let i = 0 ;

  while (i <=5)

  {

    if ( i %2  !== 0)

        console.log (i);

    i++;

}

* Do While Loop

Do while loop run atleast once if the condition is wrong

let i =0;

do {

    if (i %2 !==0)

        console.log(i);

    i++;

}

while (i<=5);

* Infinite loop

This loop well never stop and crash you system

let i = 0 ;

while (i < 5 ) {

    console.log(i);

    // i++ you forget i++

}

for (i = 0 ; i < 5 ; ) // you forget i++

let x = 0;

do {

    // i++; you forget i++ this well crash your browser

}while(x < 5);

* For in loop
* const person = {
* Name : 'elsa',
* Age : 5
* };
* for (let key in person)
* console.log (key, person[key]);
* const color = ['red', 'blue', 'black'];
* for (let index in color)
* console.log(index, color[index]);
* For of loop

   const names = ['amna', 'rio', 'laiba'];

     for (let Name of names)

        console.log (Name);

* Continue and break statement

let i = 0;

while (i <= 10)

{

    // if (i === 5) break;

    if (i % 2 === 0 ){

        i++;

        continue;

    }

    console.log (i);

    i++;

}

* Exercise 1 max of two numbers

// my code

function maximum (a = 2, b = 2) {

    if (a > b) {

        console.log ( "a is " , a , " which is maximum ");

    }

    else if (a === b) {

        console.log (" both numbers are euqals");

    }

    else {

        console.log ("b is ", b , " which is maximum");

    }

}

maximum ();

// mosh code

let number = max ( 1 , 3)

console.log (number);

function max (a , b) {

    return (a > b ) ? a : b ;

}

* Exercise 2 Land scape or portrait

//   land scape of two numbers .

// if width is grater it returns true if height is greater than returns false

// my code

let img = islandscape (500 , 400) ;

console.log(img);

function islandscape ( width , height) {

    if (width > height) {

        return true;

    }

    else return false;

}

// mosh code

console.log (landscape (600 , 800));

function landscape (width , height) {

    return (width > height);

}

* Exercise 3 FizzBuzz game

  const input = fizzbuzz (true)

    console.log (input);

function fizzbuzz (number) {

    // if not a number

    if ( typeof number !== 'number') {

        return 'not a number';

    }

    // divisible by 3

    else if (number % 3 === 0 && number % 5 !==0)

    {

        return 'Fizz';

    }

    // divisible by 5

    else if (number % 5 === 0 && number % 3 !==0)

    {

        return 'Buzz';

    }

    // divisible by both

    else if (number % 3 === 0 && number % 5 === 0) {

        return 'fizzBuzz';

    }

    // not divisible by 3 or 5

    else if (number % 3 !== 0 && number % 5 !== 0)

    {

        return (number);

    }

}

fizzbuzz ();

* Exercise 4 Demerit Points