**Functions :**

* Function decleration vs expressions

// function decleration

  function walk () {

    console.log('walk');

  }

// anonymous function expression

 const run = function () {

      console.log('run');

 };

// calling with other name

let another = run ;

run ();

another();

* Hoisting

In javaScript Hoisting is a process of moving function declaration to the top of the file . and this is done automatically by the javascript .

* Arguments

function sum (a,b) {

   let total = 0;

   for (let value of arguments)

    total += value;

return total;

}

console.log(sum (1,2,5,10));

* The rest operator

  A type of parameter that gets all of the remaining parameters of a function call via an Array.

function sum (discount , ...prices) {

    const total = prices.reduce((a,b) => a+b);

    return total \* (1-discount);

}

console.log(sum(0.1,20,30,1));

* Default parameters

function intrust (principal , rate = 3.5 , years = 5) {

 return  principal \* rate / 100 \* years ;

}

console.log (intrust(100000));

* Getters and setters