April'22 Web Fundamentals Weekly Test 29th May

Q.1. Explain difference between var/ let const by giving examples.

Ans : i) The scope of a var variable is functional scope.

The scope of let variable is block scope.

The scope of const variable is block scope.

ii) Var can be declared without initialization.

Let can be declared without initialization.

Const cannot be declared initialization.

iii) Var can be updated and re-declared into the scope.

Let can be updated but cannot re-declared into the scope.

Const cannot be updated and re-declared into the scope.

Q.2. What is the difference between null , undefined and not defined.

Ans : If a variable is accessed before defining then JS will show it as not defined, and if a variable is defined but not initialized i.e. no values is assigned it to before accessing, then its undefined, and Null means empty or non-existent value, Null is assigned, and explicitly means nothing.

Q.3. What is initialisation and declaration? Check if for a given length and breadth, is the shape a square or rectangle. (eg: Let's say the length is 10 and breadth is 20, and then check).

Ans : Initialisation : Initialization is the process of assigning a value to the variable.

Declaration : Declaration means to specify the variable name and its data type.

//Check for given length and breadth if it is square or rectangle

let l = 10;

let b = 20;

if(l===b){

    console.log("It is a square");

}else{

    console.log("It is a rectangle");

}

Q.4.

Ans : //Check if a number is odd or even using if-else

let num = 101;

if(num % 2 ===0){

console.log("The number is even");

}else{

console.log("The number is odd");

}

Q.5. Using SWITCH statement, get the day of the week based on day number, means if the day is 1, the day of week is Sunday. If the day is 2 , it's Monday and so on.

Ans : // the day of the week based on day number

let num = 6;

switch(num){

    case 1:

    day="Sunday";

    console.log(day);

    break;

    case 2:

    day="Monday";

    console.log(day);

    break;

    case 3:

    day="Tuesday";

    console.log(day);

    break;

    case 4:

    day="Wednesday";

    console.log(day);

    break;

    case 5:

    day="Thursday";

    console.log(day);

    break;

    case 6:

    day="Friday";

    console.log(day);

    break;

    case 7:

    day="Saturday";

    console.log(day);

    break;

}