**JAVASCRIPT QUESTION**

**JAVASCRIPT VARIABLE \***

Variable are Containers for Storing Data. in other word we can say that Variable is the name of a memory location where we stores some data.

=>The Value of variable can be changed.(Because js is dynamically typed language)

=>The name of variable is always meaningful .

         Like  age =56;

**Note\***

JavaScript provide a future

The value of a JavaScript variable can be changed during the execution of a program . (if we store a string in a variable we can also store number, array, object in same variable) that is called dynamically typed language.

example

**let m=5;**

**console.log(m);**

**m="Anurag"; // change the value**

**console.log(m);**

>Dynamic typing means we can change the type of variable in runtime.

>Static typing means first we need to declare the type of variable like int , float ,char etc.

>JavaScript has dynamic types. This means that the same variable can be used to hold different data types:

                let x;         // Now x is undefined

                x = 5;         // Now x is a Number

                x = "John";    // Now x is a String

                console.log(x);

                console.log(typeof(x));

**There are specific rules we must follow while naming a variable:**

=> Variables are case sensitive. Means small and capital variable name  both are different variable.

=> A variable name can contain alphabets, digits, and underscore [\_]. and $ sign only. But first character of a variable name must be alphabet or underscores(\_) and $ sign .

=> White spaces and comma cannot be used.

=> The name should not be reserved keyword.

**JAVASCRIPT NAMING CONVENTIONS**

    =>camelCase (used in JS)

    =>PascalCase (used in JS)

    =>snake\_case

=>camelCase naming convention we use in JavaScript for  Variable , Boolean, Functions, Methods

=>PascalCase naming convention we use in JavaScript for Class, Components

=>Snake\_case naming convention we use in JavaScript

**In JavaScript we can create a variable with the help of three Keyword \***

         =>var     Keyword

         =>let     Keyword

         =>const   Keyword

=> Now we are not use var keyword because var is a part of old JavaScript. var is used in ECMA Script (ES 5) and earlier version.

=> Now we are use let and const keyword because let and const is a part of new JavaScript.

let and const keyword introduce ECMA Script 6(ES6)

IMP\*

DIFFERENCE BETWEEN VAR , LET CONST

* Var is a part of ES5 where let and const is a part of ES6
* Var variable can re-declared and re-initialized but let can only re-assign not re-declared(let and const can be re-declared and re-initialized in different scope )
* The initial value of var and let may be undefined but const can’t be undefined we have to assign the value at the time of deceleration of const variable.
* Let and const are blocked scope but var are function scoped or globle scoped.

var myName="Anurag";// Declare and initialized  with var keyword

var myName="Priti"; //  Re- declare and re-initialize with same variable name

myName="Kavita"; //Re-assign the value. in same variable name(Update)

console.log(myName);

let myName="Anurag";// Declare and initialized   with let keyword

let myName="Priti"; //  Can not re- declare with same name of variable

myName="Kavita"; //But Re-assign the value. in same variable name(Update)

console.log(myName);

const myName="Anurag";// Declare and initialized   with const keyword

const myName="Priti"; //  Can not re- declare with same name of variable

myName="Kavita"; //Also Can not Re-assign the value. in same variable name(Update)

console.log(myName);

var age; // initialized with undefined

let name;// initialized with undefined

const x; // we can’t initialized with undefined

document.write(age,name)