1. What are variables? Why do we use them? What kind of scope JS comes with a variable that is declared with var keyword?

A)

It can store the data. It comes under local, global scope. If the value is assigned inside the function then it is local variable. If the value is defined outside of the function it is global variable.

1. What is the difference between variable declaration and variable initialization?

A)

Variable declaration : it means we are declaring or fixing a value to it.

Variable initialization : it means we are initiating value.

1. Why does javascript return "undefined" when we invoke a variable before the declaration.

A)

. the variable that is being evaluated does not have an assigned value.

1. What is JavaScript Variable Scope? What are the three variable scopes? What is a scope chain?

A)

Variable scope : it is the part of the program where the variable is accessible.

3 types : local, global, block scopes

Scope chain : it is used to resolve the value of variable names. Without scope chain the javascript engine don’t know what value to take if there are many scopes.

1. What is JavaScript hoisting? Write its usage and an example?

It moves all the declarations to the top before the code execution. It doesn’t matter where the declarations are given it take to the top of the code.

1. Difference between function declaration and function definition?

A)

Function declaration :

It specifies the function name, return types and parameters without the body function.

Indicates the compiler about the function and how to call that function.

Contains function name, parameter list, return type.

Function definition :

It specifies the function name, return types, parameters and with the body function.

Helps to write what the function should perform.

Contains function name, return type, parameters, function body.

1. Why var is accessible from the function's scope?

A)

The var keyword **is limited to function scope**, meaning that new scope can only be created inside functions. Function and block scopes can be nested. In such a situation, with multiple nested scopes, a variable is accessible within its own scope or from inner scope. But outside of its scope, the variable is inaccessible.

1. What is Memory leaks in JS?

Memory leak is defined as the it is the part of memory which is not using or unwanted by an application.

In js we no need an object but js run time will do on that.

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1. What is use strict mode in javascript? List it's usage.

A)

It is used to run the safe and secure code.

It eliminates the silent errors by changing them into throw errors.

“use strict” it is a string lateral expression put it on starting of the code or we have to place it in inside function at starting but it applies only for function.

‘the stict mode is no longer required after the release of es2015.

“but es6 we have to use strict mode almost for all the codes of js.

1. What is variable shadowing?

A)

When a variable is declaired with in a certain scope has the same name as the variable declared in an outer scope.

1. What is global variables?

A)

It is defined as the variable that has declared outside of the function and it is accessbile through out the program.

1. What is local variables?

A)

It is defined as the variable that has declared inside of the function and it accessible to that function only.

1. What is undefined variables?

A)

It is defined as the variable used in a program that was not previously declared in the source code.

1. What is undeclared variables?

A)

When we try to access any variable that is not initialized or declared earlier using var or const keyword.

Undeclared variables is always is global scope.

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1. What are the JavaScript data types give example?

A)

There are two types

1. Primitive data types

* Undefined : var num
* Null
* Number : 37
* String : “bhargav”
* Boolean : true or false
* Symbol

1. Complex data types

* Object : {name:”bhargav”, place:”Chennai”}
* Array : [ 10,20,30,40,50]

1. What  is complex data type?

A)

3) What is typeof undefined?

A)

It is defined as the variable name has given but we didn’t assign the value to it.

Is null==undefined?

null is a special object because typeof null returns 'object'. On the other hand, undefined means that **the variable has not been declared, or has not been given a value**. null becomes 0 when used in arithmetic expressions or numeric comparisons - similarly to false, it is basically just a special kind of "zero".

4)What is typeof null?

A)

It is used to show an empty reference to an object.

Null= undefined; here undefined is object.

5) What is Boolean, number and string? Explore in

Detail?

A)

Number : it represents the integers, decimals(floating point

Numbers).

That are either positive and negative.

The number() function is used to convert data type to

Number.

String : it is the textual content. It must be written in ‘ ’ or

“ “.

It is also called as character index.

Boolean :

It has only two values True or False.

Boolean operators are AND , OR , NOT , AND NOT

It compare the datatype of values and it gives either

True or false.

It is used as a function to get the values of varaibles, expreessions, conditions.

1. What is operating system and kernel means?

A)

Operating system :

It is the most important software that runs on a software.

It is a interface between a computer and user.

It manages the memory and process of its software and

Hardware.

Each device has the operating system.

Types of operating systems :

* Batch os
* Time sharing os
* Multiprocessing os
* Real time os
* Distributed os
* Network os
* Mobile os

Kernel:

It is the central component of an operating system

That manages operations of computers and hardware.

It manages operations of memory and cpu time.

It has complete control on the system.

It always resident in the memory.

It gives interaction between hardware and software.

1. What is memory?

A)

Memory means it is to acquire, store, retain, and later retrive

Information.

It is of 3 types : sensory memory, short-term, long-term.

Sensory memory:

It mean make up your ability to process and recall what u see…..simply we can say if we look at something and we think what have I seen now.

Short-term memory:

It is also known as active or primary memory.

It is ability to store a small amount of information and for short period of time.

Long-term memory :

It can store the data permenantly.

We can see whenever we needed.