Interview Questions

Q1. What kind of scoping does JavaScript use? (eBay)
Ans: Lexical Scope

Q2. Differences between declaring variables using var, let and const? (Facebook)
Ans. Before the ES6 version of javascript, only the keyword var was used to declare variables.

With the ES6 Version, keywords let and const were introduced to declare variables.

keyword	const	let	var
global scope	no	no	yes
function scope	yes	yes	yes
block scope	yes	yes	no
can be reassigned	no	yes	yes

Q3. Difference between " == " and " === " operators? (AMD)
Ans. Both are comparison operators. The difference between both the operators is that "==" is used to compare values whereas, " === " is used to compare both values and types.

```
var x = 1;
var y = "1";
(x == y)  // Returns true since the value of both x and y is the same if their data type is not checked
(x === y) // Returns false since the typeof x is "number" and typeof y is "string"
```

Q4.Explain Implicit Type Coercion in javascript? (IBM)

Ans. Implicit type coercion in javascript is the automatic conversion of value from one data type to another. It takes place when the operands of an expression are of different data types.

String coercion

String coercion takes place while using the ' + ' operator. When a number is added to a string, the number type is always converted to the string type.

```
Example : var x = 1 ;
          var y = "1";
          x + y // Returns "11" as a String type

          x  = 1 ;
          y = "Coding Ninjas" ;
          x+y ;  // Returns a String "1Coding Ninjas"
```

Q5. What are undeclared and undefined variables? (Airbnb)

Ans:

- ➔ When variables are not declared in a program, then it is known as Undeclared Variables.
- ➔ If no variable exists in our program and the program wants to read those variables, it will generate a runtime error.
- ➔ When there is the declaration of a variable given no value to the variable inside a program is known as an Undefined Variable.
- ➔ when a program wants to read the variable's value, then the undefined values are returned.