

1. Explain the difference between 'if...else' and 'switch' statements for conditional logic.

	If-else	switch
Definition	Depending on the condition in the 'if' statement, 'if' and 'else' blocks are executed.	The user will decide which statement is to be executed.
Expression	It contains either logical or equality expressions.	It contains a single expression which can be either a character or integer variable.
Evaluation	It evaluates all types of data, such as integer, floating-point, character or Boolean.	It evaluates either an integer, or character.
Sequence of execution	First, the condition is checked. If the condition is true then 'if' block is executed otherwise 'else' block	It executes one case after another till the break keyword is not found, or the default statement is executed.
Default execution	If the condition is not true, then by default, else block will be executed.	If the value does not match with any case, then by default, default statement is executed.
Editing	Editing is not easy in the 'if-else' statement.	Cases in a switch statement are easy to maintain and modify. Therefore, we can say that the removal or editing of any case will not interrupt the execution of other cases.
Speed	If there are multiple choices implemented through 'if-else', then the speed of the execution will be slow.	If we have multiple choices then the switch statement is the best option as the speed of the execution will be much higher than 'if-else'.

3. Explain the difference between var, let, and const when declaring variables in JavaScript.

Ans:

Var: If we declare a variable from var, then we can also declare it again with the same name, and if we want to re-assign its value then we can do that too.

Let: If we declare a variable with let, then we cannot declare it again with the same name, but can re-assign its value

Const: If we declare variable with const, then we can neither declare it again, nor can re-assign its value

4. Explain the concept of "scope" in JavaScript and the difference between global and local scope.

Ans: Global variables are those declared outside of a block.

Example : Var is a global scope variable.

Local variables are those declared inside of a block.

Example : Let and const are local scope.

5. What is the difference between "null" and "undefined" in JavaScript?

Ans: Undefined means a variable has been declared but has yet not been assigned a value.

Example: `var a;`

Null is an assignment value. It can be assigned to a variable as a representation of no value.

Example: `var a = null;`