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* Javascript Variables →

- Variables are the most fundamental thing that we will use while coding.
- Variable is nothing just a symbolic name for a value.
- We use keyword 'var' to declare a variable.
- We can also use 'let' and 'const' to declare a variable.

Ex → var num = 1

var name = "Rutvi"

var isCapital = true.

* Diff. 'var' vs 'let' vs 'Const'...

- var declarations are globally scoped or function scoped while let and const are block scoped or locally scoped.
- Const is supposed to be initialized at the time of declaration itself. Whereas we can initialize 'var' and 'let' after the declaration as well, and can be updated afterwards.
- Const. is used when we want to have the same value throughout the code and we don't want that value to change. We cannot update the value afterwards.

Console

~~Ex → var marks = 100
① var marks~~

Output → ~~100~~

Console.log(marks)

② let marks = 100
let marks
console.log(marks)

Output → Syntax Error:
Identifier 'marks'
has already been
declared.

* ① → A variable cannot be redeclared with keyword 'let', whereas it can be done with 'var'. y

② → And some error will be given if we try to redeclare a variable with the help of 'const'. y

Global vs Local Variables

→ If a variable is declared outside of the blocks present in our code then we say it is a "global variable".

→ If a variable is declared inside a particular block then it is known as local variable.

var marks = 100 → Outside of blocks
(Global Variable)

if (true) {
 var perc; → Inside of block
}
 (Local Variable)

function scope() {
}
 } → BLOCKS.

{
 }
 }

scope()
console.log(marks)

~~Imp.~~

→ When we try to declare a global variable with 'let', 'var' and 'const' it works fine with all three.

→ Now, when we try to define a local variable inside a block with the keyword 'var' then also we will see that it is accessible to all the other blocks.

→ So, if we want a local variable to only be used by the block in which it is present then we declare it with the help of keyword 'let'.

→ To get 'var' to work as a local variable it is supposed to be declared inside a function.

→ Vars are hoisted.