JS - Variables

```
//variables
//What is variable - Variable in programming is a named storage location that holds a value or data. These values can change during the execution of a program, hense
Types of variables in JS
1.Automatic
2.var
3.let
4.const
*/
//1.automatic
language = "javaScript" // declaring the variable name(language) and assigining value(javaScript) to it
language = "HTML" // this will reassign the value(HTMl) in the existed variable(language)
//2.let - Block scope
let age = 56 // declaring the variable name(age) and assigining value(56) to it
age = 'CSS3' // this will reassign the value(CSS3) in the existed variable(age)
//3.const - Block scope
const nation = "India" // declaring the variable name(nation) and assigining value(India) to it
//4.var - Global scope
var backend = "Node" // declaring the variable name(backend) and assigining value(Node) to it
backend = "Django" // this will reassign the value(backend) in the existing variable(backend)
var backend = "Express" // this will re-declare the the variable name(backend) and assign the value(Express) to it. confusing right 🔞 so don't use it 💪
 Feature
                                 `var`
                                                                        `let`
                                                                                                             const'
                                                                        Block scope (within `{}`)
                                                                                                            Block scope (within `{}`)
  **Scope**
                                 Function or global scope
  **Hoisting**
                                 Hoisted (initialized as `undefined`)
                                                                        Hoisted (not initialized)
                                                                                                            Hoisted (not initialized)
  **Re-declaration**
                                 Allowed in the same scope
                                                                        Not allowed in the same scope
                                                                                                            Not allowed in the same scope
  **Re-assignment**
                                 Allowed
                                                                        Allowed
                                                                                                            Not allowed
  **Initialization**
                                 Can be declared without initializing
                                                                        Must be initialized before use
                                                                                                            Must be initialized during declaration
                                                                                                            No (if declared in global scope)
  **Global Object Property**
                                 Yes (if declared in global scope)
                                                                        No (if declared in global scope)
  **Temporal Dead Zone (TDZ)**
                                 Yes (before declaration)
                                                                                                            Yes (before initialization)
                                                                        Yes (before initialization)
  **Usage**
                                Used in older code or global scope
                                                                       Used in modern code (block scope) | Used for constants (values that don't change)
```