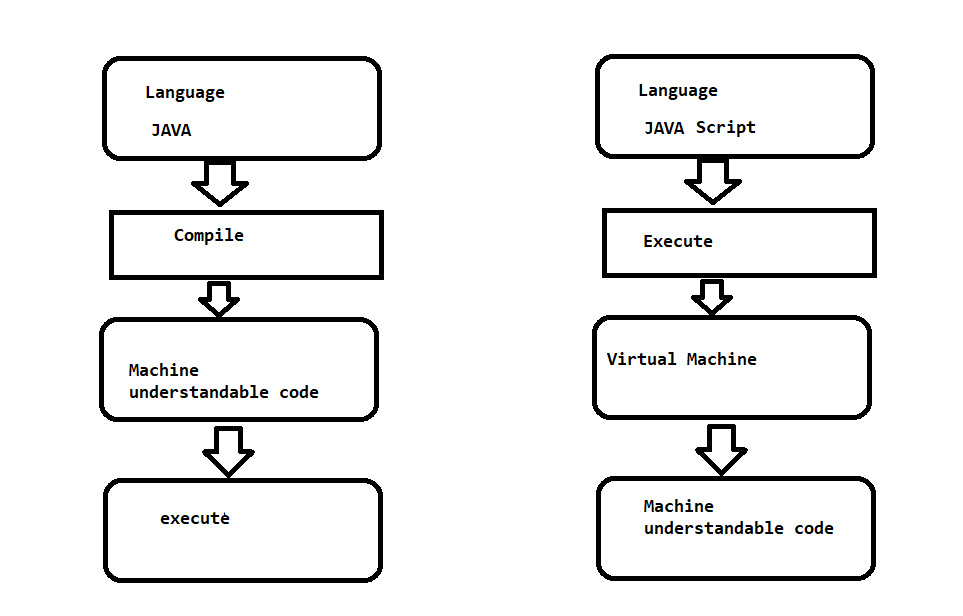


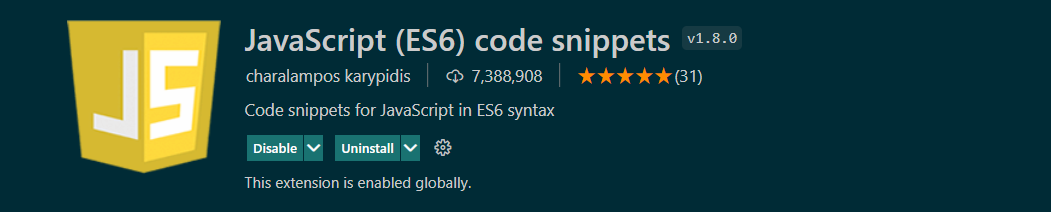
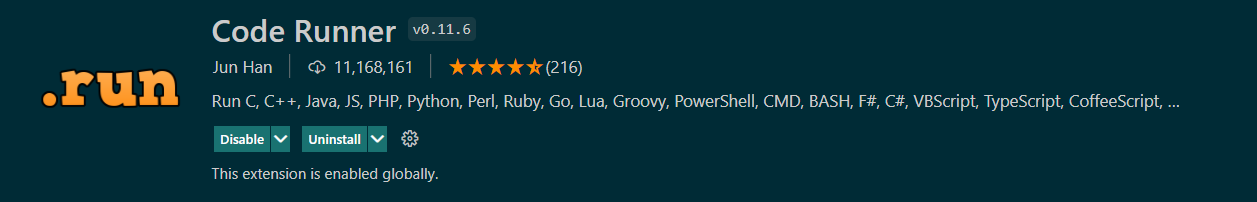
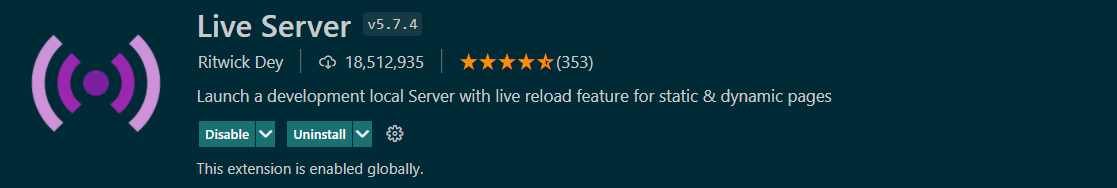
High level Difference



Java Script

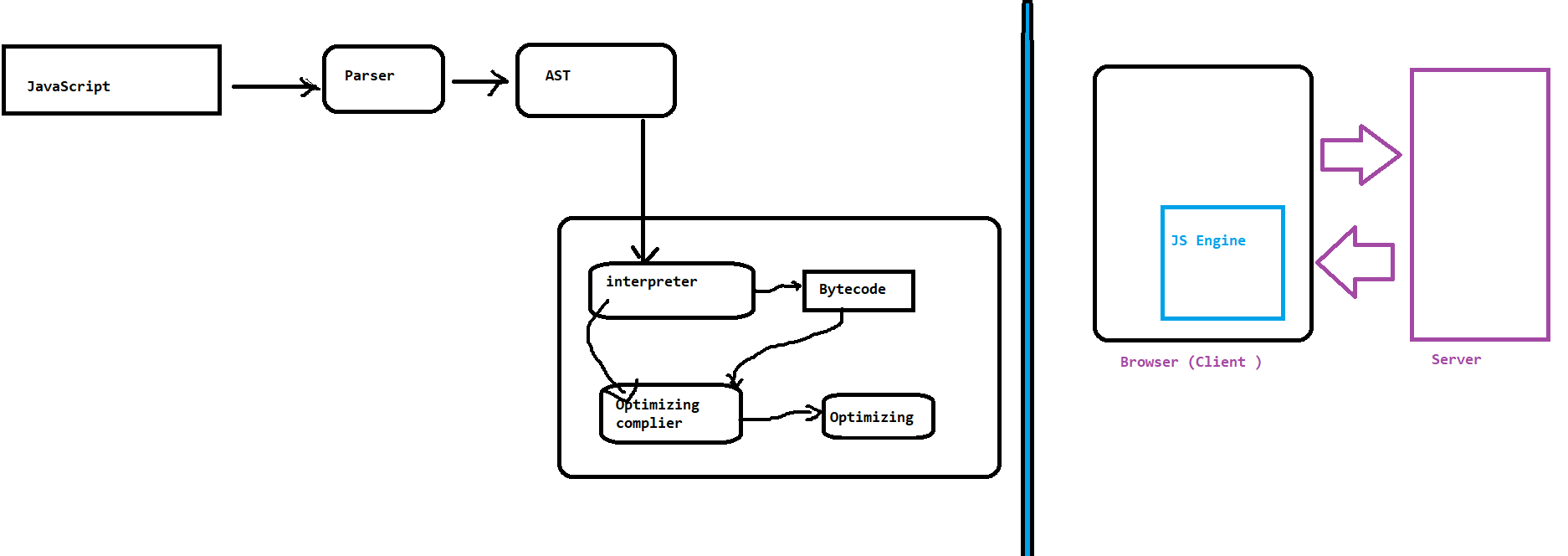
* High level and interpreted programming language
* Brendan Eich in 1995
* it is a programming language for web, now it can be used in non-browser environments also like Node JS

Visual Studio Code Editor

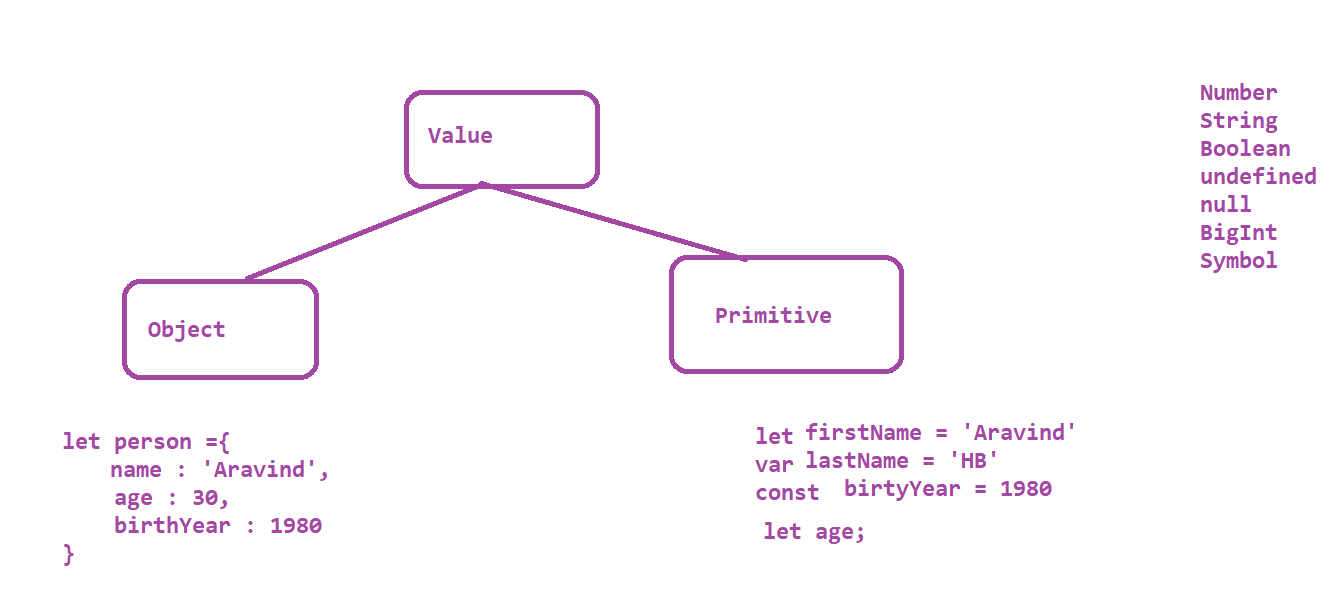
* Download the software from <https://code.visualstudio.com/download>
* Follow the installation Steps
* Select File -> Open Folder
* Use Extensions options (4th option from left panel ) to install the plugins
* To get Java script code snippet
  + 
* To Run any code in VSC
  + 
* To Execute JS on a Browser from VSC
  + 

Install Node JS software on the machine if you want to execute the Java script Program in non-browser environment

1. Download and install <https://nodejs.org/en/download/>
2. Once the installation is complete, on a new terminal
   1. node –v
   2. npm -v



Variables



let and var are the two ways of declaring a variable whose values can be altered later point of time

whereas, const is a variable whose value will never be altered in the program

Avoid using var as it’s a old way of declaring a variable.

Only difference between var and let is ,

let is a block scope and var is a function scope

Operators in JS

1. Arithmetic Operators
   1. Addition 🡪 +
   2. subtraction 🡪 -
   3. Multiplication 🡪 \*
   4. Division 🡪 /
   5. Module 🡪 %
   6. Exponential 🡪 \*\*
   7. Increment 🡪 ++
2. Assignment Operator
   1. Assign = x = y
   2. Add and assign += x+=y x = x + y
   3. Subtract and assign -= x-=y x = x- y
   4. Multiply and assign \*= x\*=y x = x\* y
   5. Divide and assign /= x/=y x = x/ y
   6. Module and assign %= x%=y x = x% y
   7. Exponential and assign \*\*= x\*\*=y x = x- y
3. Comparison Operator
   1. Check equal Value ==
   2. Check equal Value and type ===
   3. Check Not equal Value !=
   4. Check equal Value and type !==
   5. Greater than >
   6. Less than <
   7. Greater than or equal >=
   8. Less than or equal <=
   9. Ternary Operator ?:

4. Logical Operators

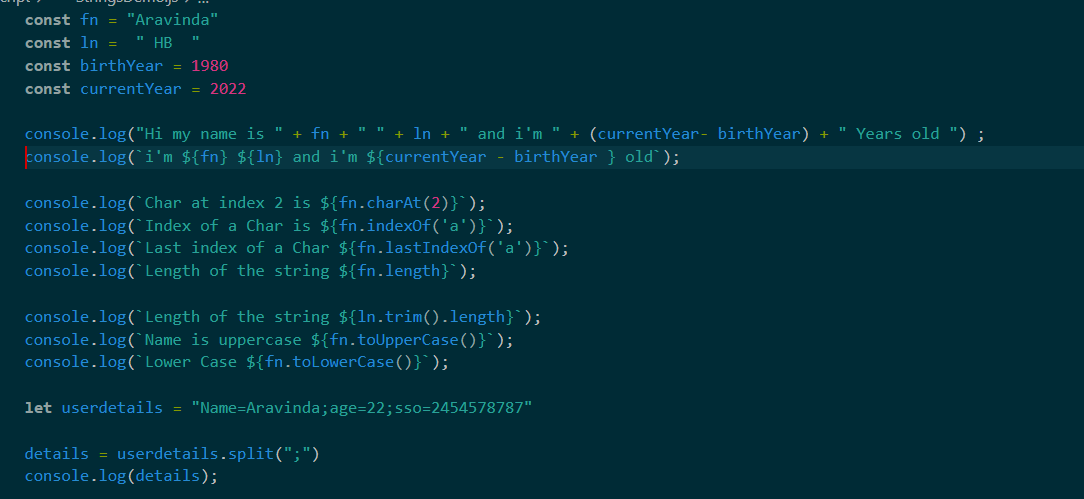
1. Logical AND && => True only when both conditions are true
2. Logical OR || => True when any one condition is true
3. Logical NOT ! => true if the result is false

5. Type of operator

1. typeof

2.instance of

Strings



Conditional Statements

1. if
2. if.. else
3. if..elseif.. else
4. switch

Looping Statements

1. for
2. for each
3. while
4. do while
5. for in
6. for of