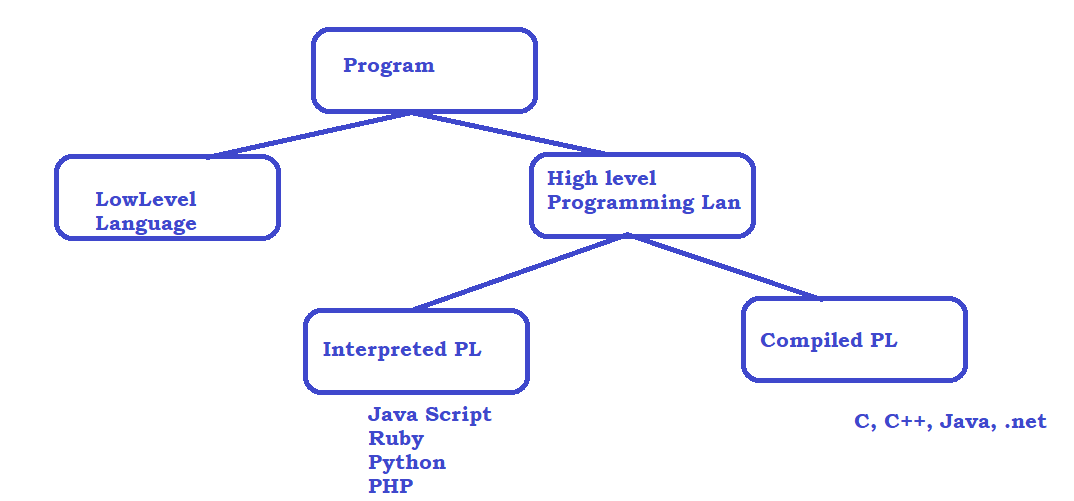
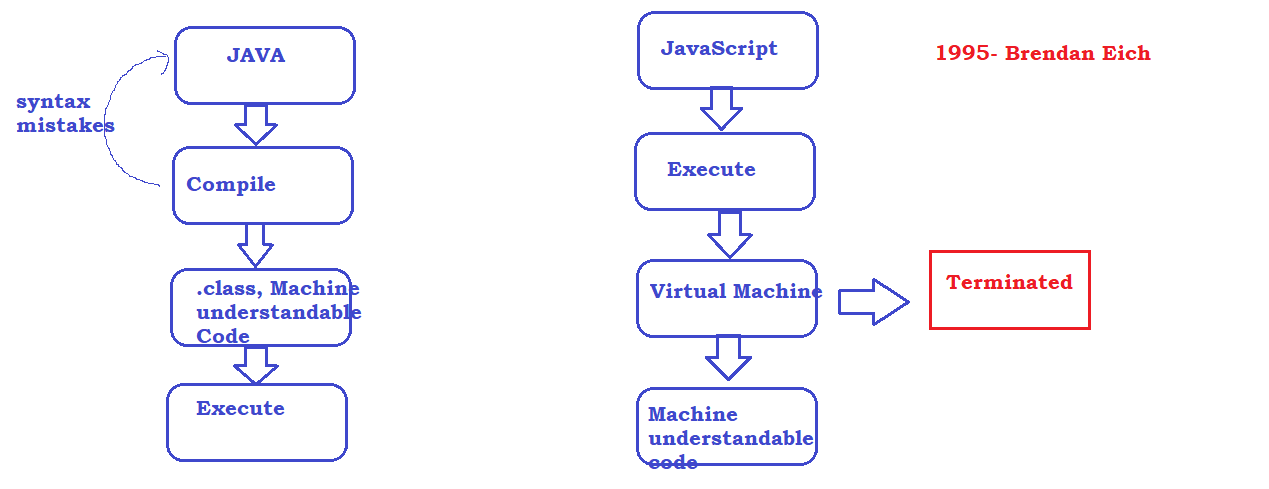
Java Script

JavaScript is **a high level, Object Oriented and Interpreted** programming language.

Reference : <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference>

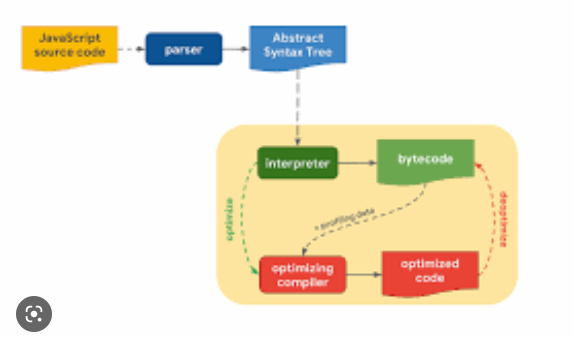


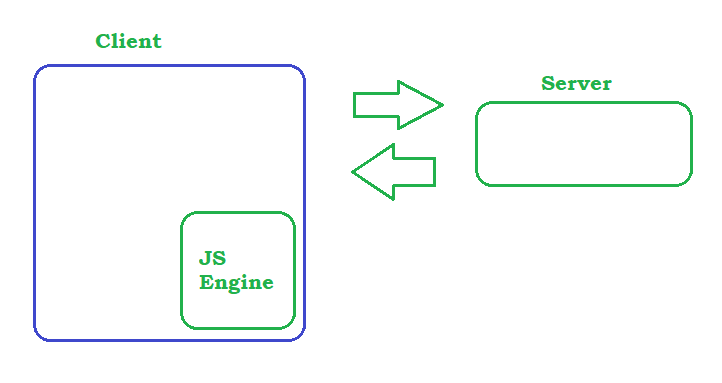
High level difference



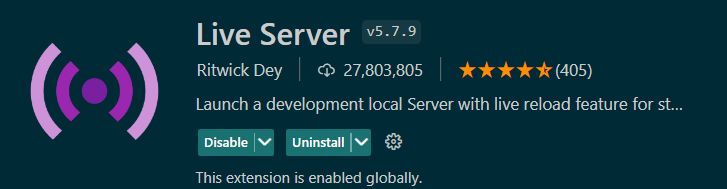
## Java Script Engine :

<https://en.wikipedia.org/wiki/JavaScript_engine#:~:text=A%20JavaScript%20engine%20is%20a,every%20major%20browser%20has%20one>.





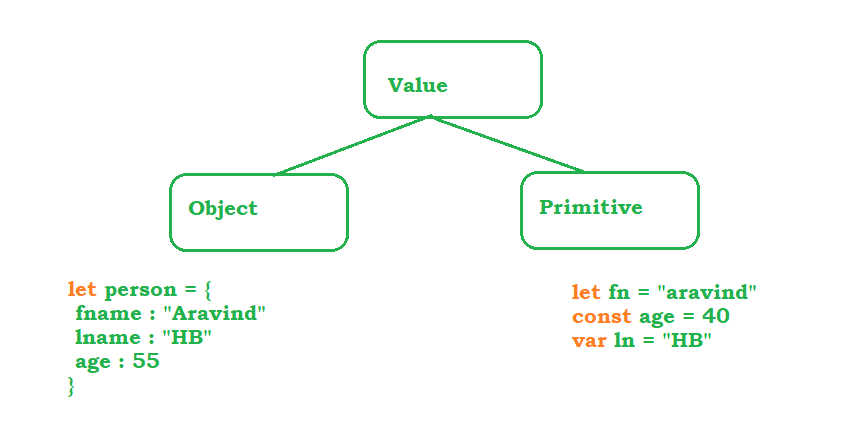
Visual Studio Code Editor

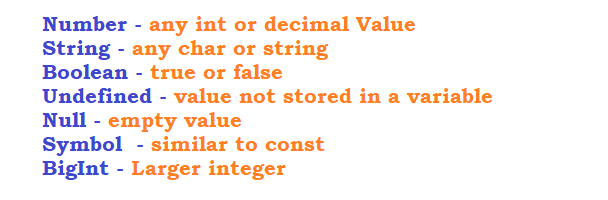
1. Download the software from <https://code.visualstudio.com/download>
2. Follow the instructions – installation steps
3. Use Extensions option to install the plugin
   1. 
   2. 
   3. 

# Install node software on the machine. If you want to execute JS on a non- browser Environment

* <https://nodejs.org/en/download/>
* Once the installation is completed, open a Terminal
  + Node –v
  + npm –v

Data type and Variables





Operators in Java Script

# Arithmetic Operators

* Addition 🡪 +
* Subtraction 🡪 -
* Multiplication 🡪 \*
* Division 🡪 /
* Module 🡪 %
* Exponential 🡪 \*\*
* Increment 🡪 ++

# Assignment Operators

* Assign = x=y
* Add and Assign += x+=y x = x + y
* Sub and Assign -= x-=y x = x - y
* Mul and Assign \*= x\*=y x = x \* y
* Div and Assign /= x/=y x = x / y
* Add and Assign %= x+=y x = x % y
* Exp and Assign \*\*= x\*\*=y x = x \*\* y

# Comparison Operators

* Check equal value == x==y
* Check equal value and type === x===y
* Check not equal value != x!=y
* Check not equal value type !== x!==y
* Grater then > x > y
* Less then < x < y
* Grater then equal >= x >= y
* Less then equal <= x <= y
* Ternary Operator ?> (x>y)?x:y

# Logical Operators

* Logical AND &&
* Logical OR ||
* Logical NOT !

# TypeOf Operators

* typeOf
* instaceOf

Conditional Statements

* if
* if,else
* if,elseif,... else
* switch

Looping Statements

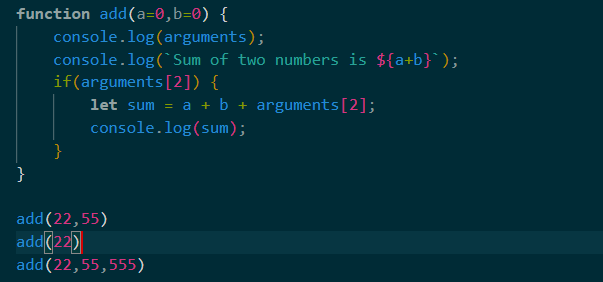
* for
* for each
* while
* do while
* for in
* for of

Arrays

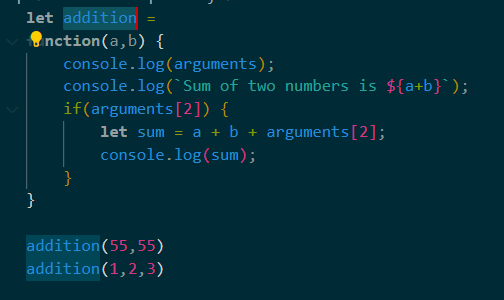
* push
* pop
* shift
* unshift
* delete
* splice
* slice
* join
* concat

Functions

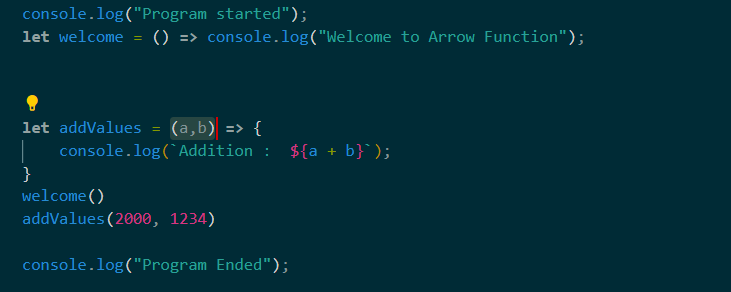
* Function with definition



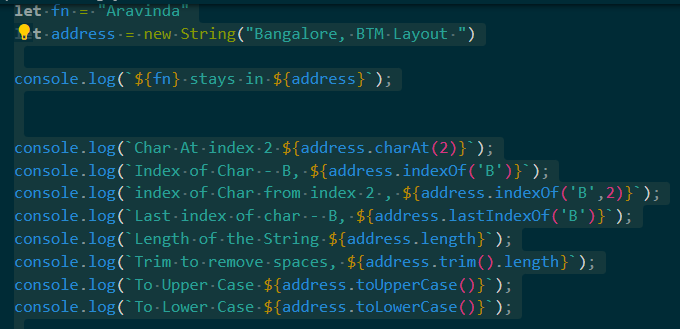
* Function with Expression OR Anonymous Functions



* Arrow Functions



Strings



Objects in JS

OOPS

* Abstraction
* Encapsulation
* Polymorphism
* Inheritance

Collections

Set

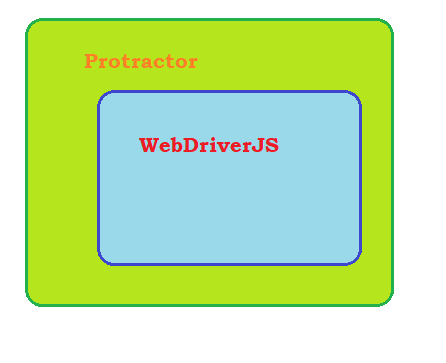
Map

Reading from KB

1. install readline library from node js
2. <https://www.npmjs.com/package/readline>
3. npm i readline
4. import readline to the program and pass stand input and output
5. execute the program as node program
   1. node <<file name>>

Protractor

protractortest.org



Setup :

1. npm install -g protractor
2. protractor –version
3. webdriver-manager update

C:\Users\Aravind\AppData\Roaming\npm\node\_modules\protractor\node\_modules\webdriver-manager\selenium