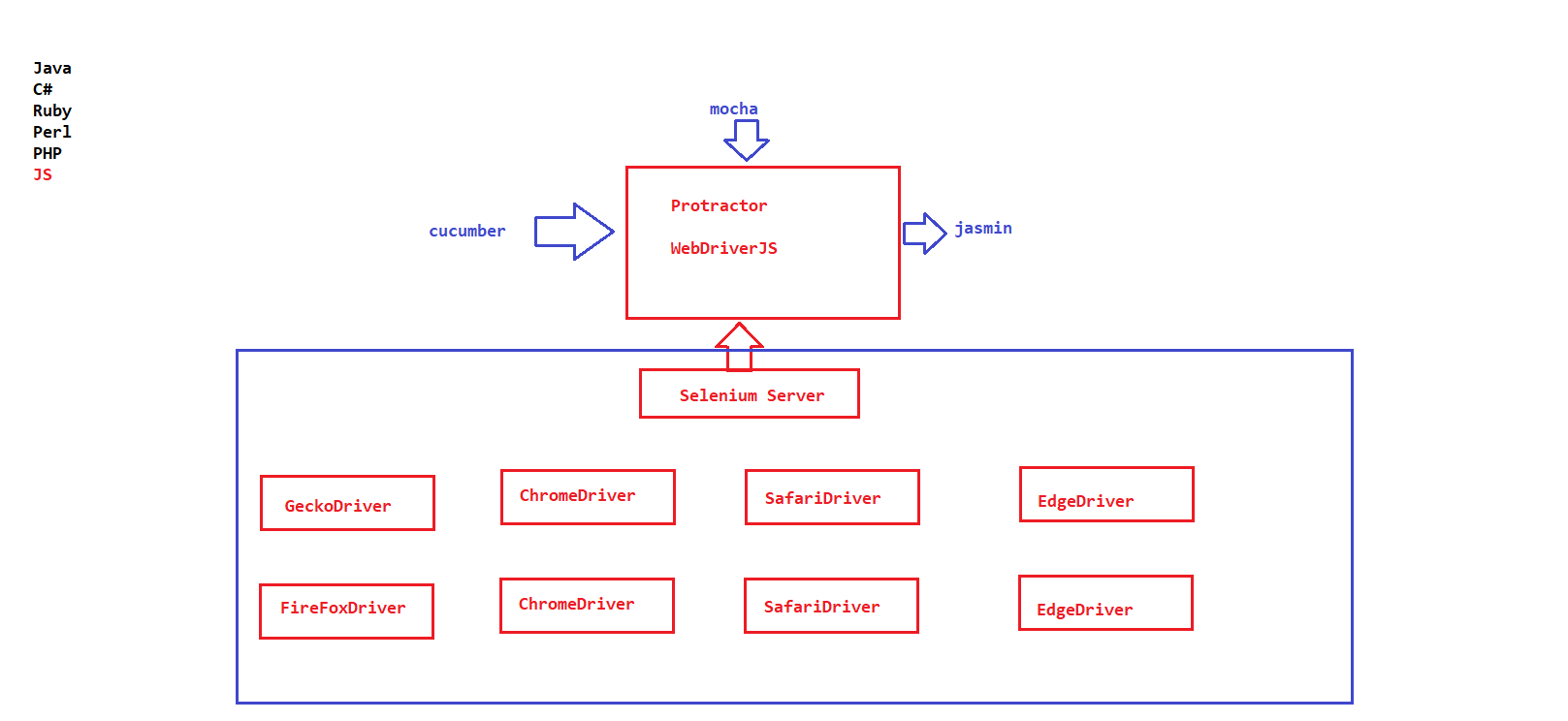
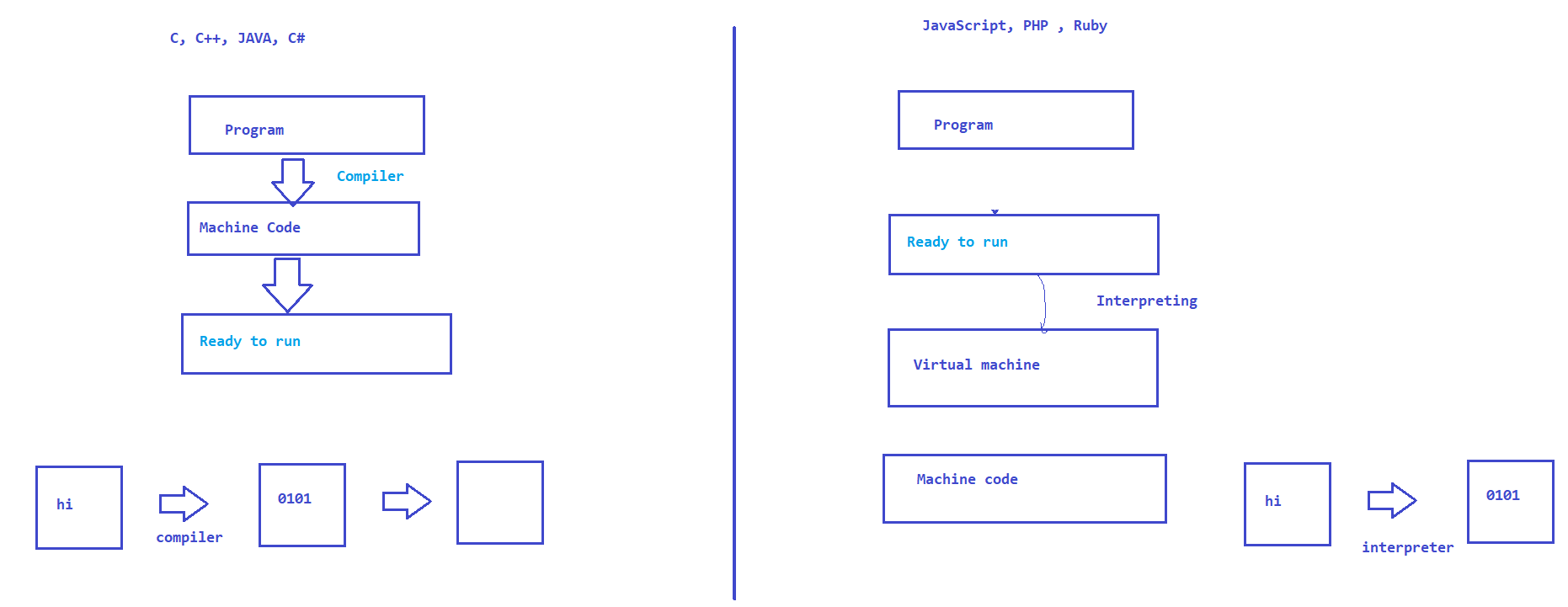
Protractor :

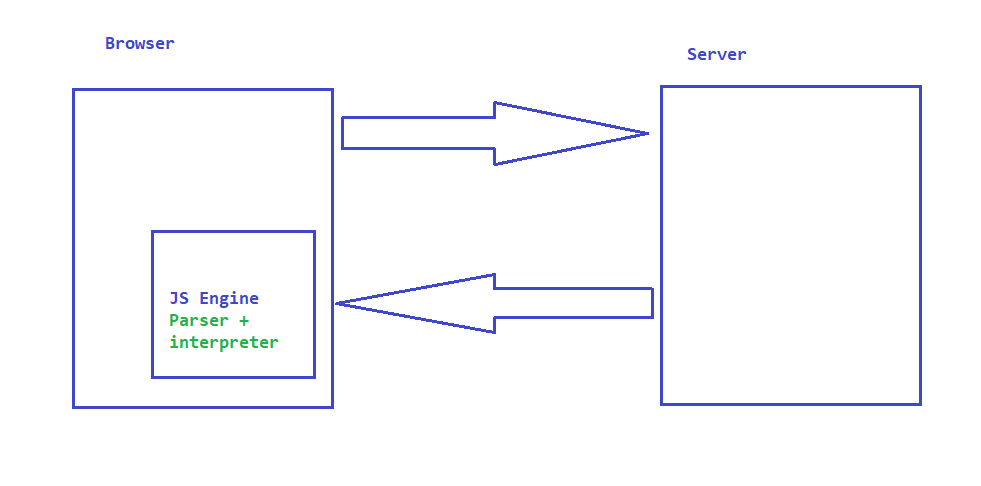


JAVA SCRIPT :

JavaScript is a interpreted programming language



Every Browser comes with JS Engine



Data types in JS : *Java script has dynamic typing, we need to specify the type of a variable manually. based on the value stored in a variable JS decides what is the data type of a variable.*



**var** ->legacy / Very old approach

**let** -> value which is changing

**const** -> value cannot be changed these variables are immutable

Operators :

Arithmetic Operators

* +
* -
* \*
* /
* %
* \*\*
* ++

Assignment Operators

* = -> Assign -> x = y
* += -> Addition and Assign -> x+ = y => x = x + y
* -= -> Subtraction and Assign -> x- = y => x = x – y
* \*= -> Multiply and Assign -> x\* = y => x = x \* y
* /= -> Divide and Assign -> x/ = y => x = x / y
* %= -> Modulus and Assign -> x% = y => x = x % y
* \*\*= -> Exponential and Assign -> x\*\* = y => x = x \*\* y

Comparison Operators

* == -> equal to -> 2 ==”2" -> true
* === -> equal to value and equal to type -> 2===”2” -> false
* != -> not equal to -> 2 != 3
* !== ->not equal to value and type
* > -> greater than
* < -> less than
* >= -> greater than or equal to
* <= -> less than or equal to
* (condition)?”f” :”s” -> Ternary operator -> (2 >3)?”first stmt”:”second stat”

NOTE : typeof(variable) returns the type of a variable. based on the value stored

Logical Operators

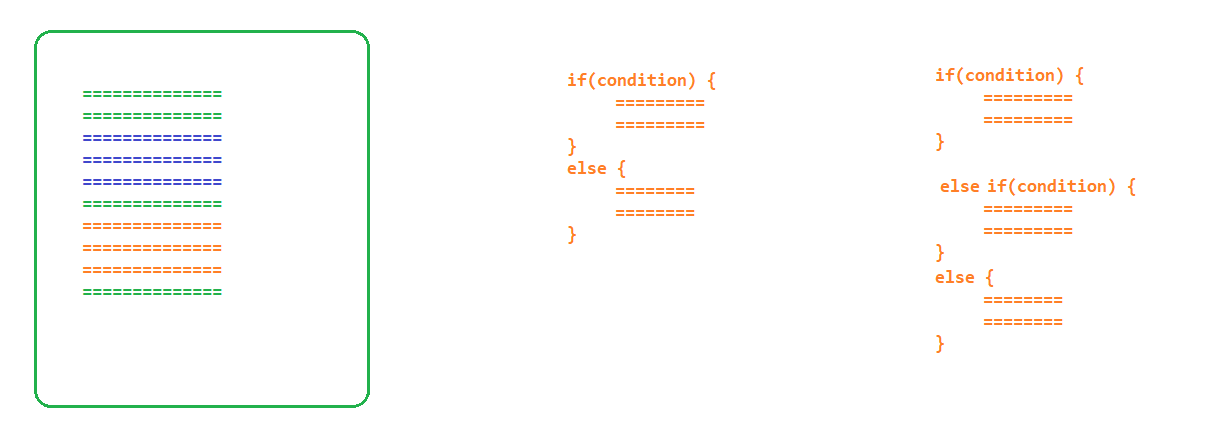
* && -> logical AND
* || -> logical OR
* ! -> logical NOT

Type Operators

typeof -> returns the type of variable

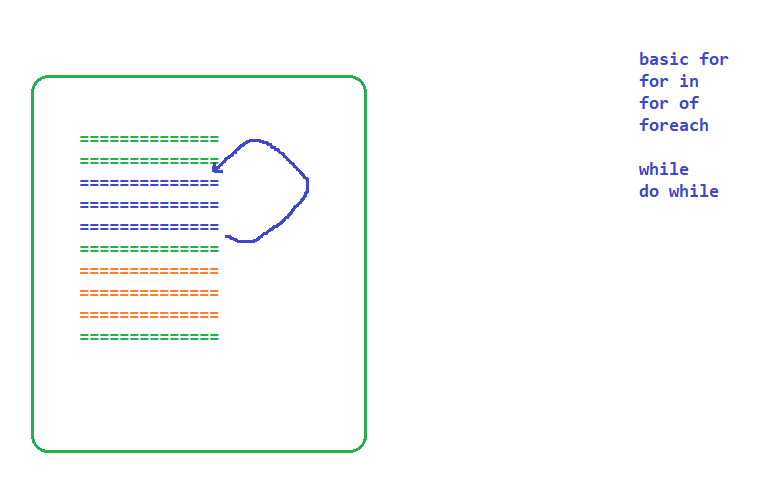
instanceof ->

CONDTITIONAL STATEMENTS IN JS :



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

Looping Statements :



Arrays:

Function:

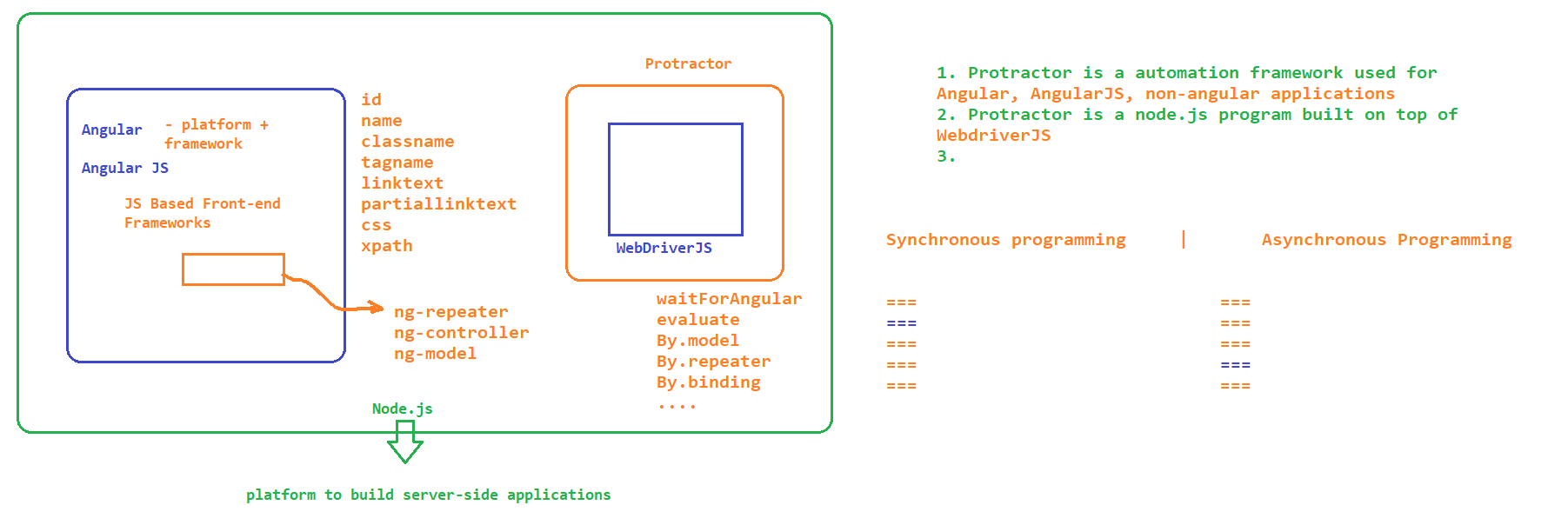
* function declaration
* function expression OR anonymous function
* Arrow function

OOPS in JS:

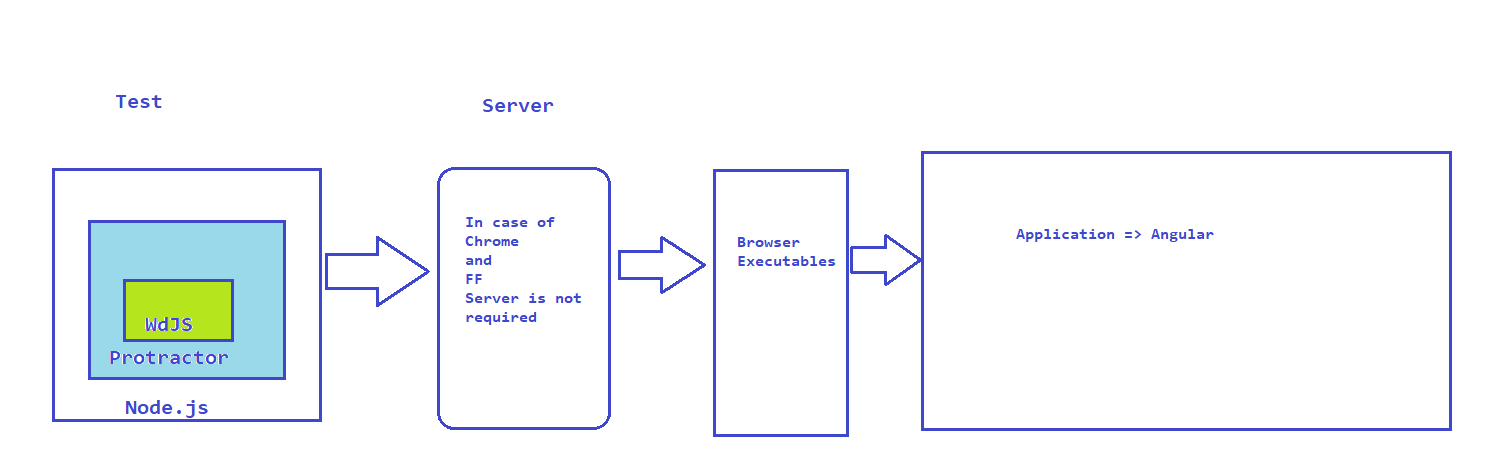
Class

Object

PROTRACTOR :



Execution Flow:



Installation of Protractor :

NOTE : if you get into any permission Error execute the below command from the powershell terminal

Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy Unrestricted

To Download the

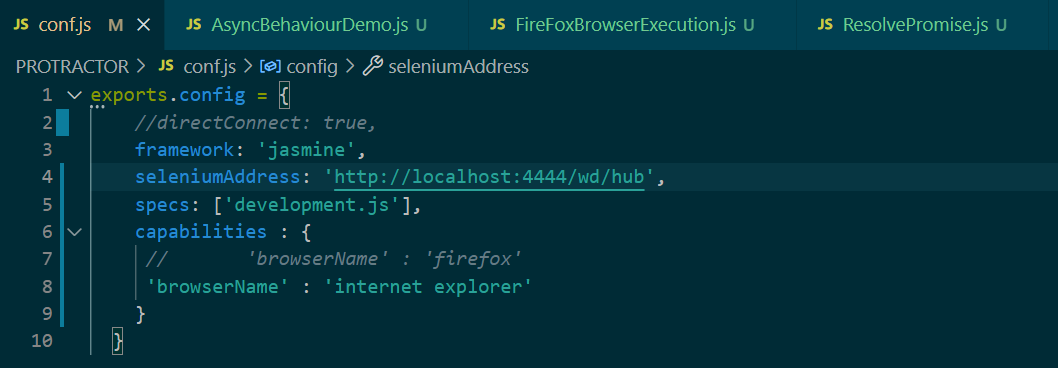
webdriver-manager start --versions.chrome 2.28

Running Test On Firefox Browser : update conf.js with type of browser



**Running Test On IE OR OTHER Browser :**

1. update conf.js as below



2. Start selenium server : webdriver-manager start

3. Download the driver executable - webdriver-manager update --<Browser Type>

webdriver-manager update –ie

4 Execute the test : protractor ./conf.js

**Validations in Protractor**

**------------------------------------------------**

expect()

**Chain locators**

* getting row count
* getting first row using get function
* getting first row using row function
* getting first row and required cell
* getting whole table
* getting all elements from first row
* getting all columns
* getting all cells in a row

**beforeEach and afterEach**

if we have any pre and post conditions to a test then we can go with before Each and after Each functions.

**Actions in Protractor**

**Handling Frames in Protractor**

**ExplicitWait in Protractor –**

**EW is not required for protractor elements its required only when you use Non-Angular Applications**

**Taking screenshot using Jasmin2-Screenshot plugin :**

Step1 : Go to npm repo and search for jasmin2-screenshot-reporter

Step2: Install the plugin

npm install protractor-jasmine2-screenshot-reporter --save-dev

Step3: Update conf file and verify target folder for screenshots

**Taking Allure Reports**

**---------------------------------------------**

Step 1 : Navigate to - https://www.npmjs.com/package/jasmine-allure-reporter#using-allure-reporter-in-protractor

Step 2 : Execute from terminal **npm i jasmine-allure-reporter**

Step 3 : Refer this section <https://www.npmjs.com/package/jasmine-allure-reporter#using-allure-reporter-in-protractor> and update conf.js

Step 4 : Execute the test and see the xml file generated inside allure-report folder

Step 5 : Add allure command line tool - <https://www.npmjs.com/package/allure-commandline>

Step 6 : Execute npm i allure-commandline

Step 7 : allure serve “Dir”

**HTML Reports With ScreenShot :** with protractor HTML Reporter

**--------------------------------------------------**

Step1: search for protractor-html-reporter-2

Step2: install using npm i protractor-html-reporter-2