

Selenium Java

Monday, April 5, 2021

1:59 PM

Domain :BA

Programming:

Knowledge :

- 1) Data type
- 2) Variables
- 3) Arrays
- 4) Conditions
- 5) Loops
- 6) Data Structures
- 7) Class
- 8) Object
- 9) OOPS

Start: 2 PM

Break: 4 PM : 15 mins

End : 6 PM

Theoretical+ Practical + Practice

15 Days

JavaScript

Java

Selenium

POM/POF

Junit

GIT/Maven/Jenkins

Github/BitBucket

Apply on Project

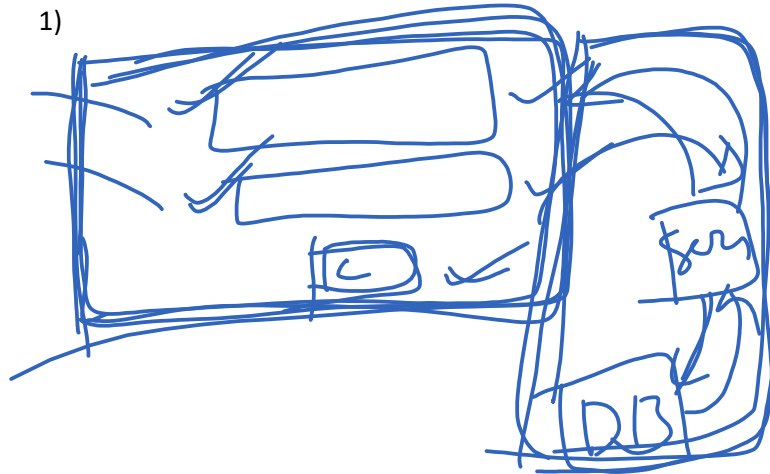
- 1) Web Applications
 - a. Server
 - b. Client (Browser)
 - i. JavaScript : Logic
 - ii. Html : UI
 - iii. CSS : Styling
- 2) Windows Applications
 - a. Executables
- 3) Desktop Applications
 - a. Require additional software
 - b. Java, .Net...etc
 - c. Power Builder

- 4) Mobile
 - a. Web
 - b. Native Applications (More Secured)
 - c. Hybrid (Native + web)

V8
SpiderMonkey
WebKit
Chakra

JavaScript

1)



2009 : NodeJS

Install NodeJS to execute JS outside of browser

JavaScript can used in server side using NodeJS

Install NodeJS

Vscode : IDE

- 1) Register and login to <https://github.com/>
- 2) Click on New to Create Repository
- 3) Give Repository Name
- 4) Finish
- 5) Repository Created
- 6) Click on Creating a new file
- 7) Give file name as Demo.js
- 8) Click on Commit new file

<https://github.com/qtpsudhakar/SynchronyJS>

<http://gitpod.io/#https://github.com/qtpsudhakar/SynchronyJS>

<http://gitpod.io/#https://github.com/UserName/RepositoryName>

Datatypes:

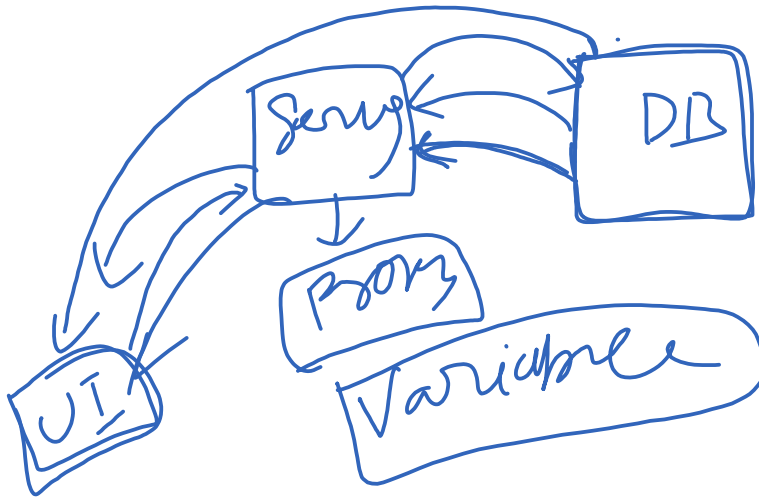
Alpha Numeric Special

Numbers

Strings

Boolean

Variable: Which can stores data in run time



Datatype : Type of data

Variable : stores data :

We can store any type of data in a variable

We can use let to declare a variable

Declaration is optional

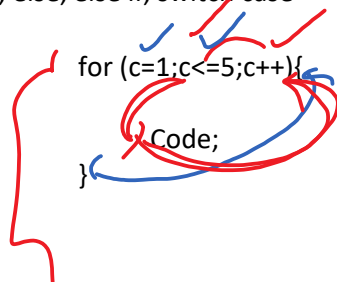
"use strict" will forces declaring variable

Arrays:

Storing multiple values in a single variable using an index number

Condition: Used to execute block of code based on given condition

If, else, else if, switch case



Loop: Used to execute block of code again and again based on a condition or number of times

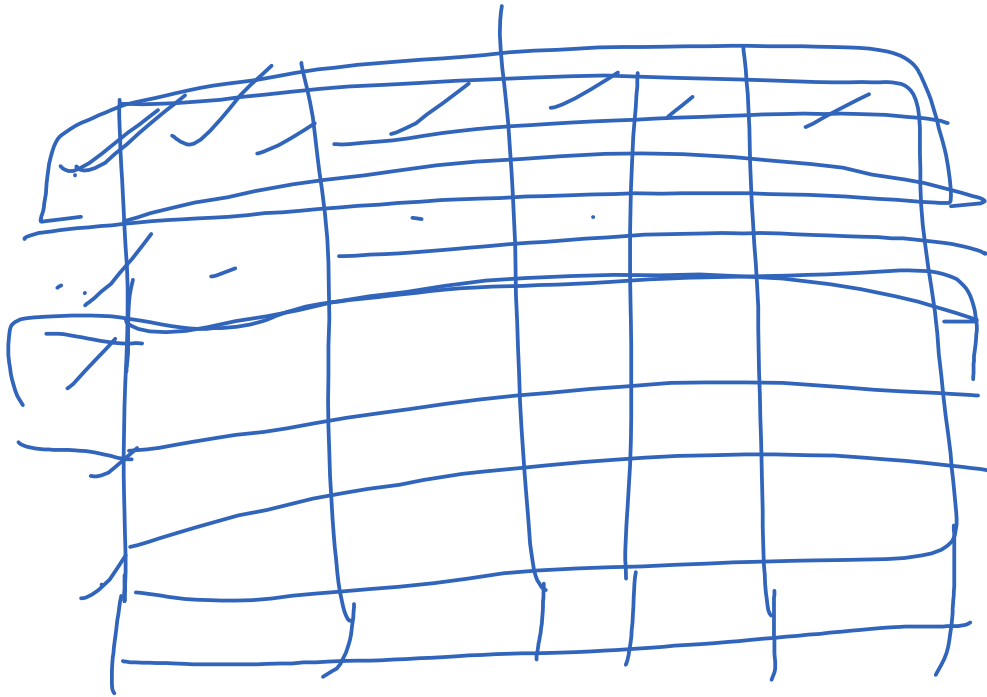
For Loop:

i=1 : initialization

i<=10 : condition

i++ : incrimination

```
for(let i=1;i<=10;i++){  
    Log(i)  
}
```



Loops : Execute a block of code again and again base on condition or number of times

Functions: Reuse a block of code

Eclipse

IntelliJ

Java Development

Visual Studio : .net Development

Functions

- 1) Creating and reusing functions
- 2) Creating Parameters
- 3) Returning value
- 4) Returning multiple value
- 5) Passing multiple values

Functions: A reusable code block

Named Functions

Anonymous Functions : Assign as value to a variable, pass to parameter while calling function

Call back

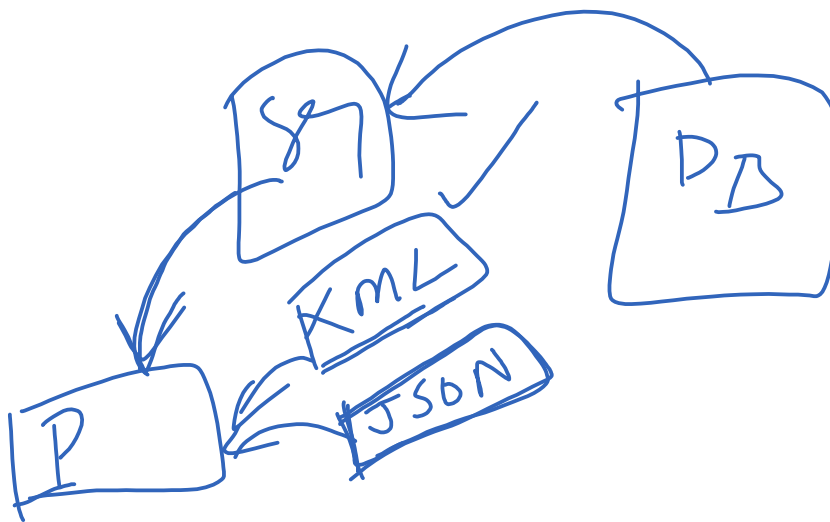
Parameters: normal, rest parameter (accepts any number of values)

Arrow Functions: short form for anonymous function (lambda expression)

We can return values using return keyword

How many return statements can be there in a function?

```
function isOdd(n){  
    if(n%2==1){  
        return true;  
    }else{  
        return false;  
    }  
}
```



Functional Programming

Write reusable code in functions

Call them where ever you want for creating test flow

Class

Object

Encapsulation

inheritance

Polymorphism

Developer develops

Developer tests

Improving quality

1995 : winrunner

Xrunner

Mercury interactive

QTP : 2002

6.5

2008 : res

2007 : iphone

2009 : android

Selenium 2006

WebDriver 2007

Selenium + WebDriver 2010

2011 : smart phones

Selenium for WebAutomation

World moves towards web

2014 : selenium crossed QTP

2018 : default for every tester