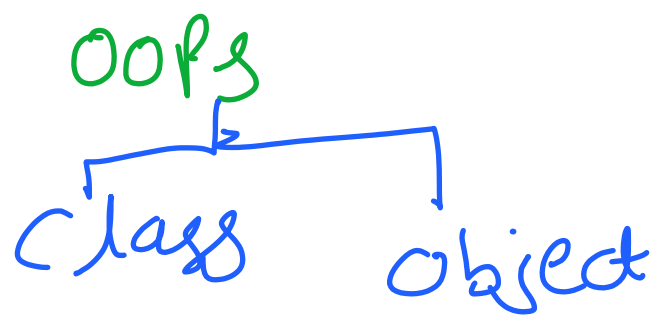


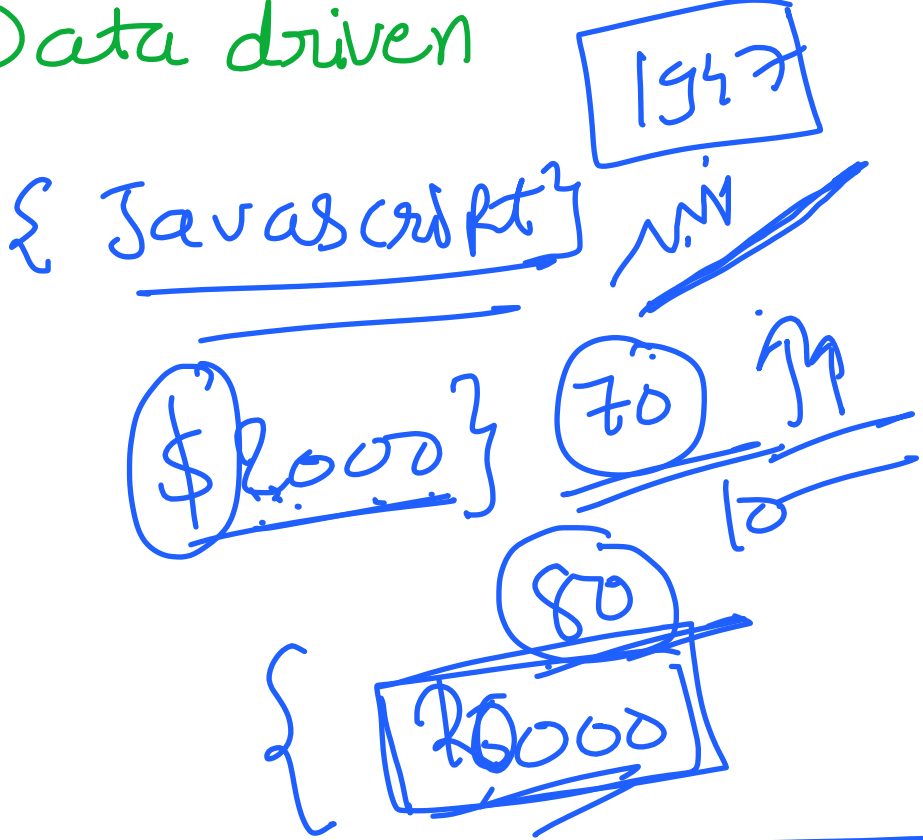
Paradigms



- 4 Pillars
- 1) Abstraction
  - 2) Encapsulation
  - 3) Inheritance
  - 4) Polymorphism.

→ Parallel Prog.  
↳ Batch Prog.

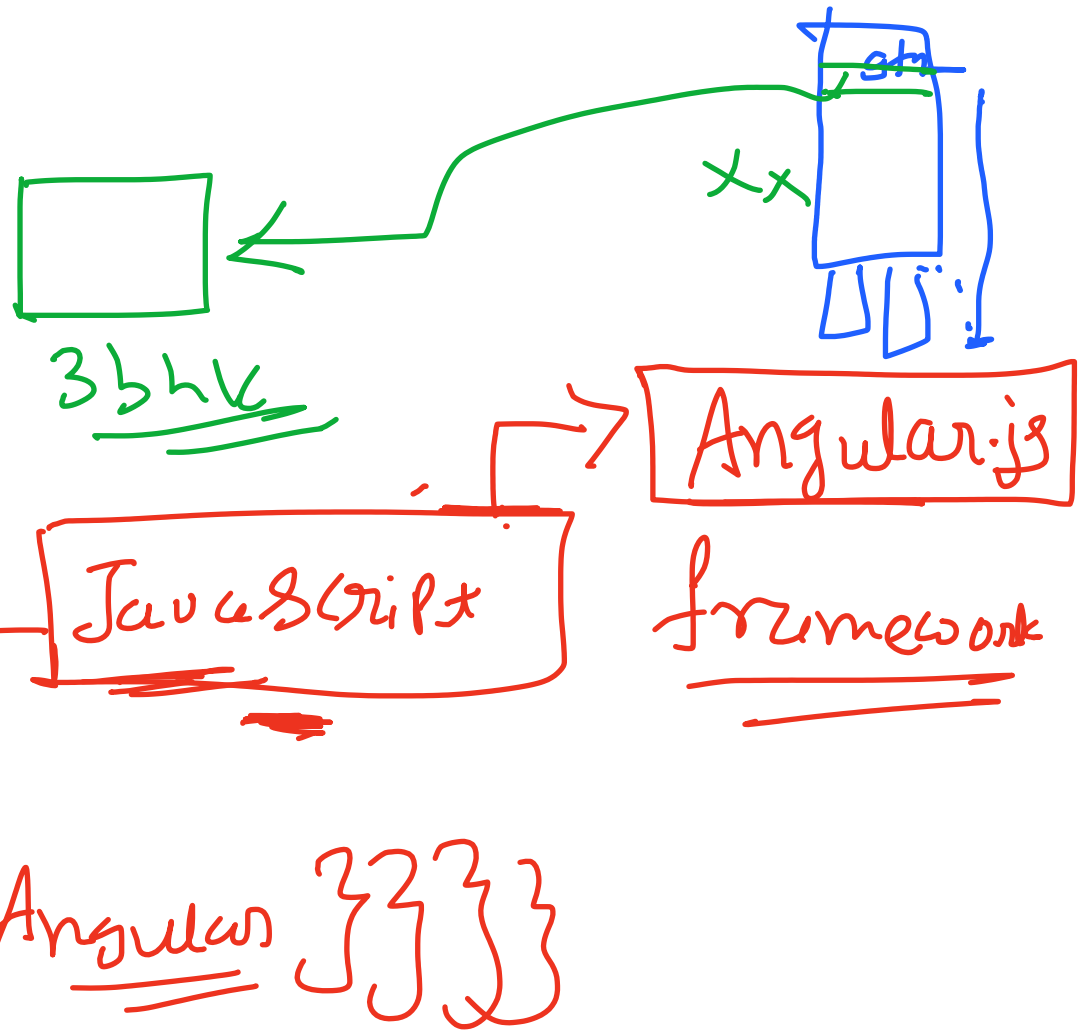
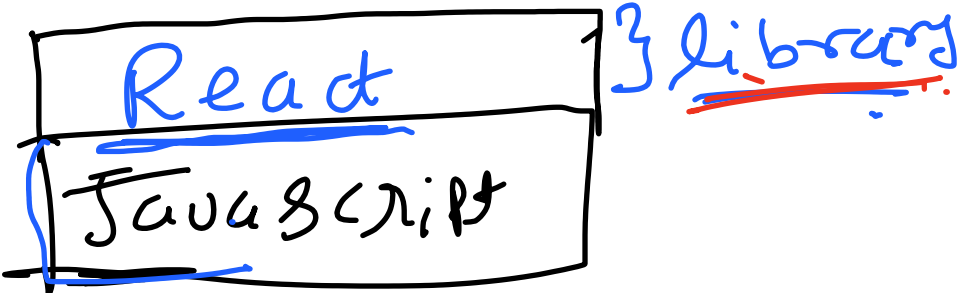
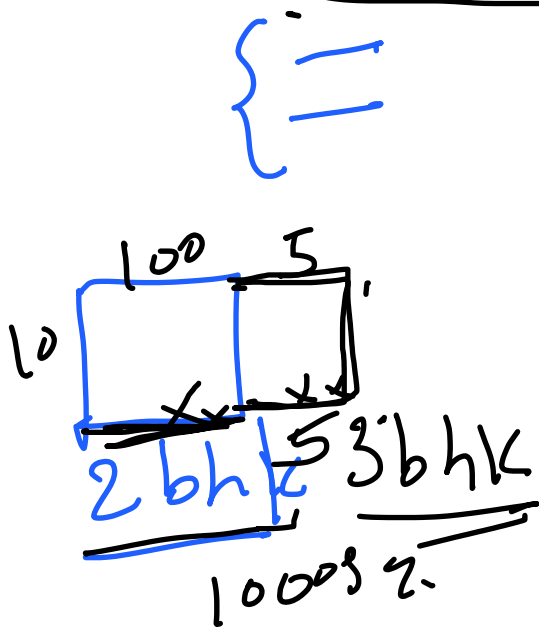
→ functional  
Data driven



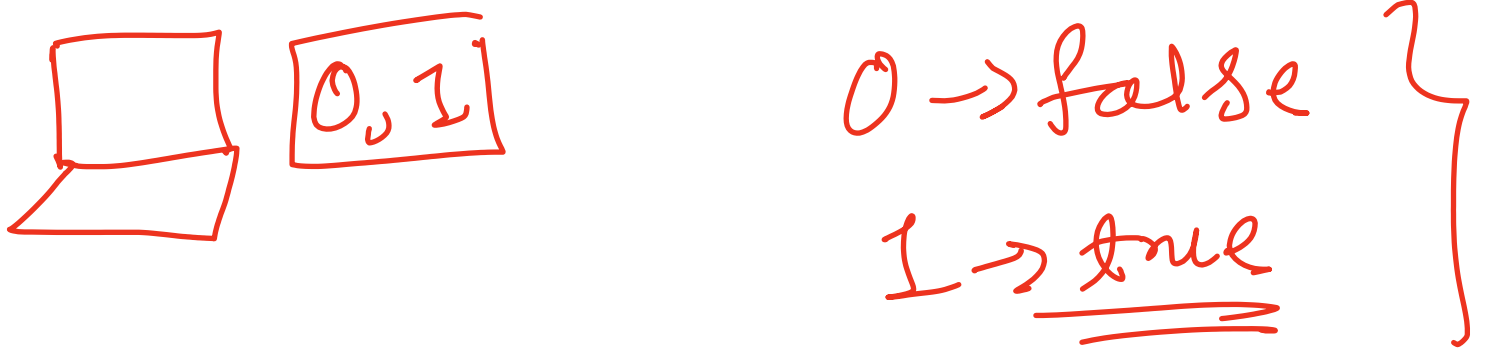
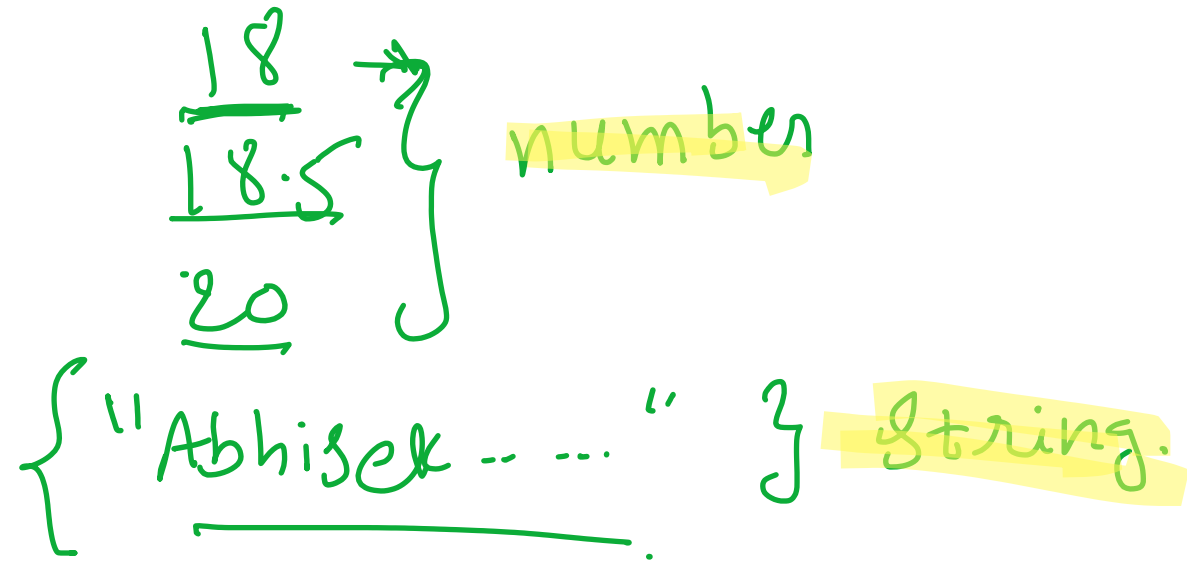
Javascript

React

Angular

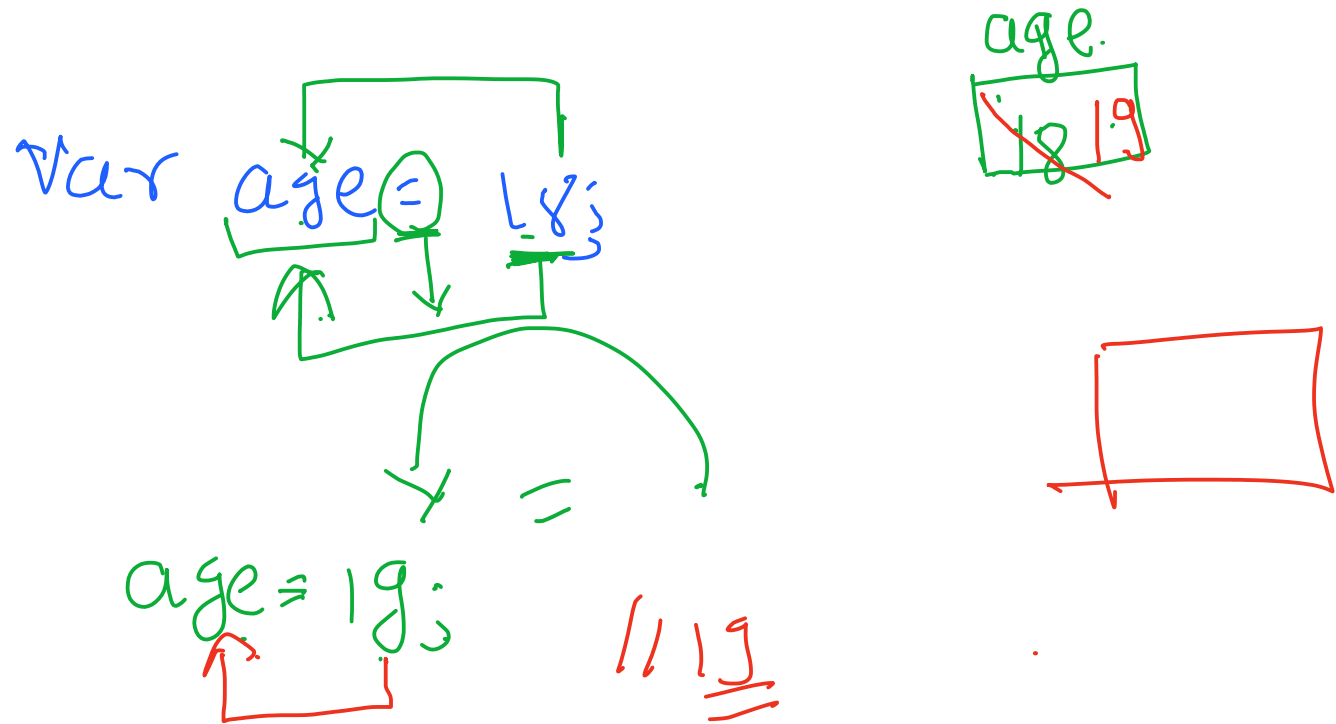


Datatype:-

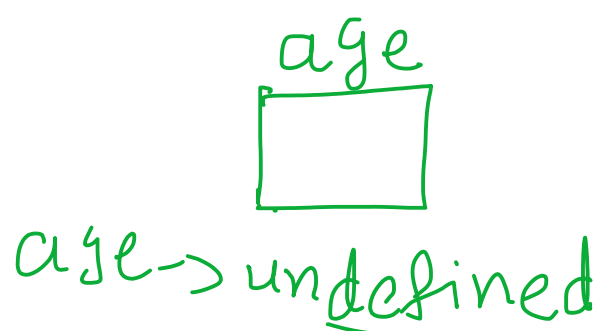


Var age;

Var age = null;



Var age;



Var age = null;



C / C# / Java / C++



16/07/2022, 18:24

```

    {
        var student1 = " "; Firstname
        var student2 = " ";
        :
        student45 = " ";
    }
    5 names
  
```

var arr = [std1, std2, ... std5]

var obj = {  
 "name": "Sreejeet"  
 "age": 18  
}

Object  
 ↓  
 key-value pair

key → value

$\frac{x}{0} \Rightarrow \infty$   
 $-\frac{x}{0} \Rightarrow -\infty$   
 $0/x \Rightarrow 0$

$\frac{50}{5} \Rightarrow 10$   
 $\frac{50}{2} \Rightarrow 25$

"string / num" } num/string } NaN  
 0/0 } NaN

age = 18 ; checkAge = "18"  
 type of age      type of checkAge  
     number              string

age == checkAge  
     ↳ comparison  
 18      "18" => 18      value  
                                  type

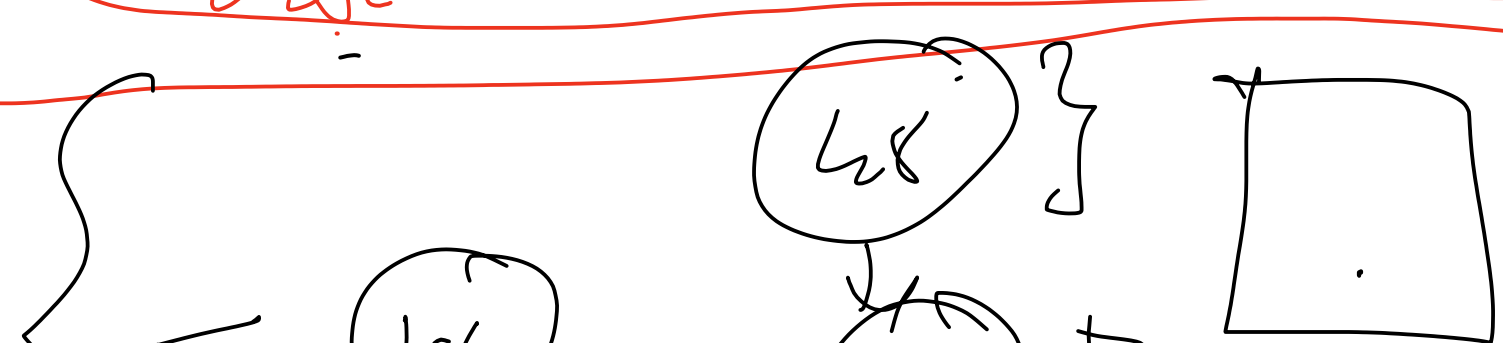
age === checkAge // false  
     Datatype

var isValid = true  
 type of isValid // boolean  
 >> <<      bitwise operator

Object :-  
     Class => blueprint  
     { state + behavior }  
         ↓                      ↓  
     data, properties      functionality  
         variables

lots  
 blueprint  
 Car  
 {  
     type  
     brand  
     Avg  
     }  
 {  
     race()  
     rent()  
     sell()  
     }

Honda  
 Car  
 type -> Petrol  
 brand -> Honda  
 Avg -> 12  
 ↓  
 Object



Javascript } Datatypes

Console

types

operators

Assignment

null/undefined

Installation, -

VS Code

github for desktop

mozilla

brave/chrome

notepad++ } & x

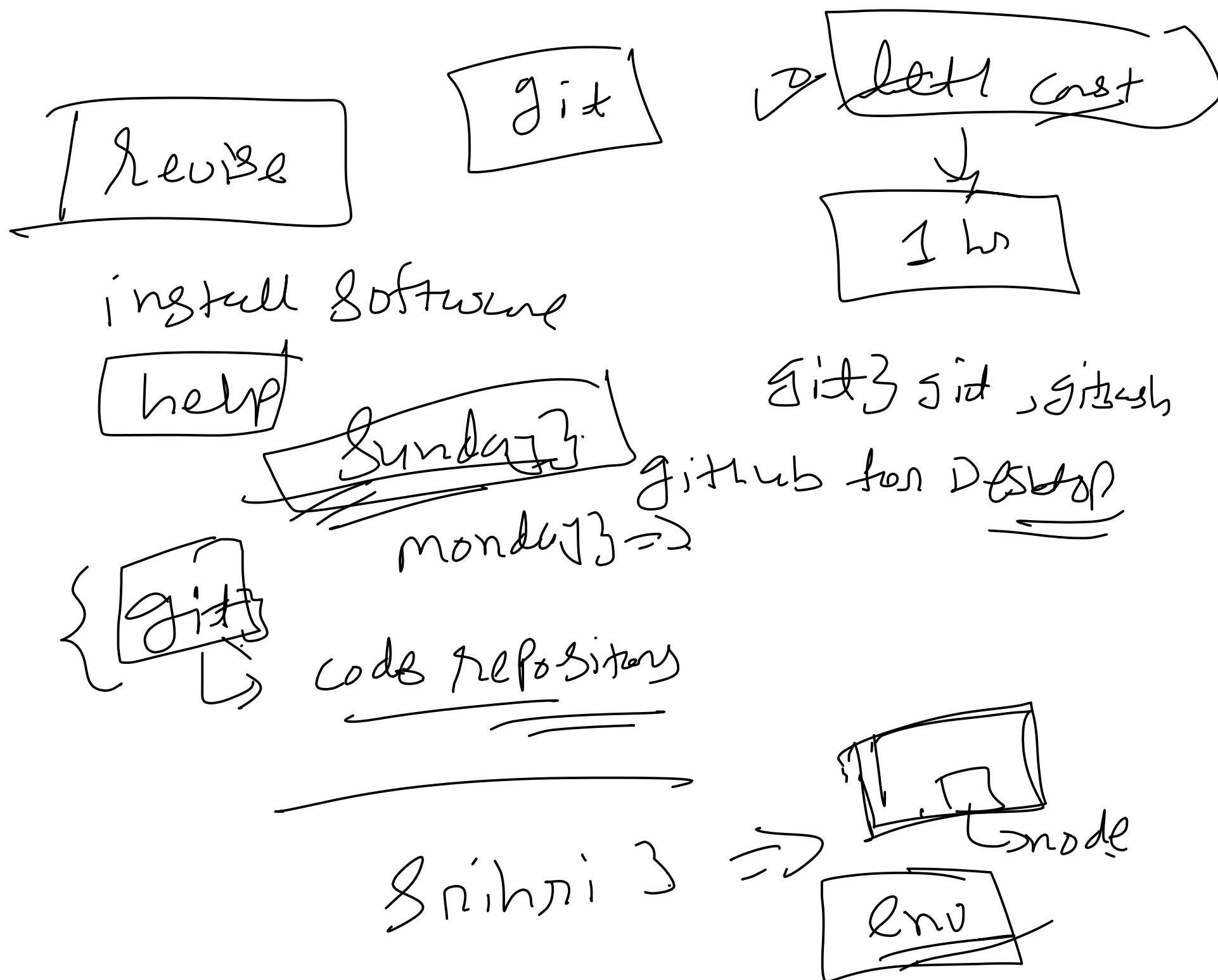
F12

var age;

var age = null;

age  
[ ] → undefined

age  
[ null ]



Please install below softwares without fail in Monday's class

- VS Code - <https://code.visualstudio.com/>
- Git and Gitbash : <https://git-scm.com/download/win>
- Node : <https://nodejs.org/en/download/>
- Github for Desktop : <https://desktop.github.com/>
- Notepad++ : <https://notepad-plus-plus.org/downloads/v8.4.4/>
- Postman : <https://www.postman.com/downloads/>
- Mozilla : <https://www.mozilla.org/en-US/firefox/new/>

Commands for git

git config --global **user.email** "email-add"

git config --list

