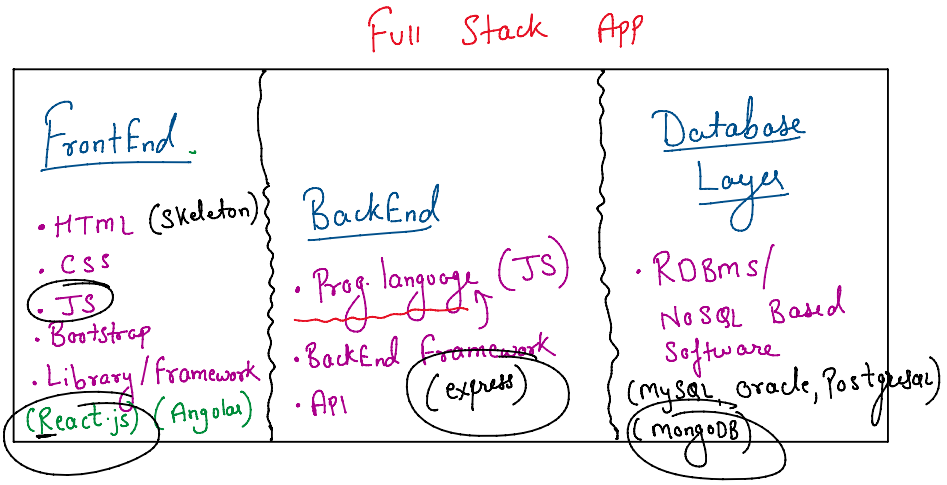
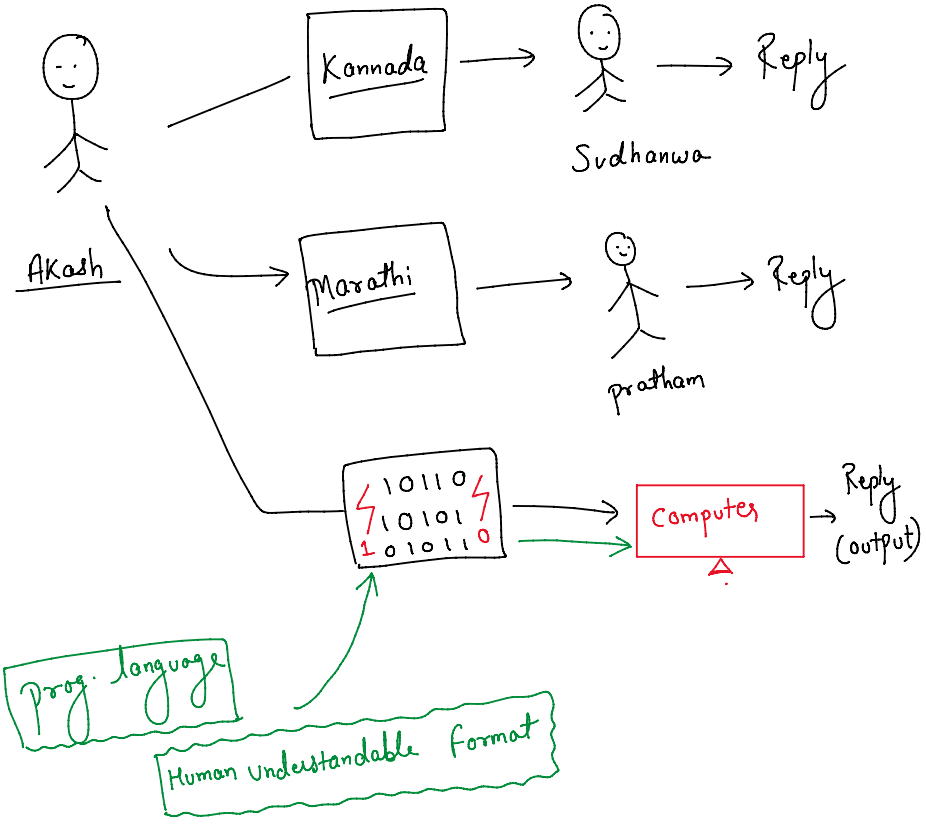
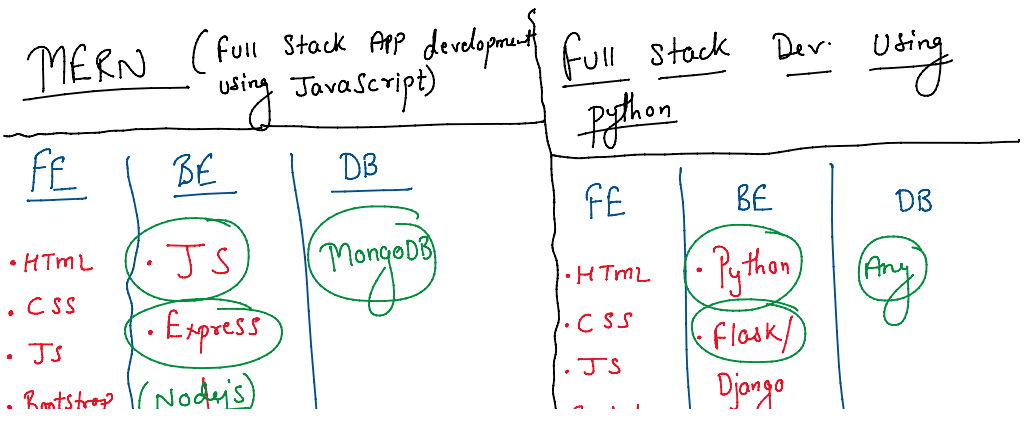
Basics

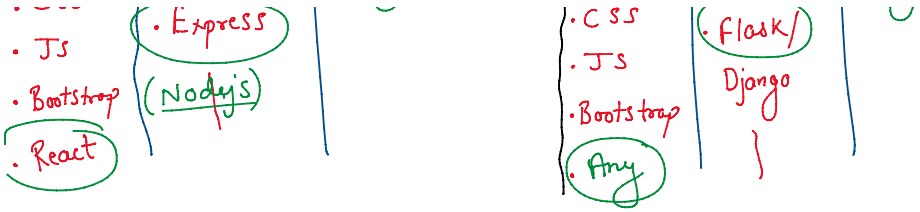
15 July 2024 10:36

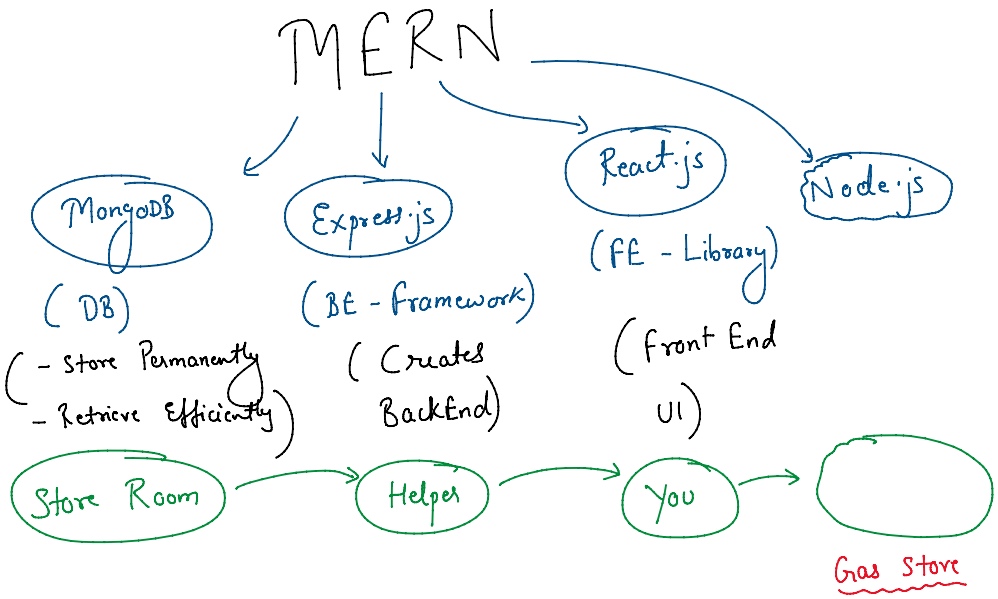
Full Stack







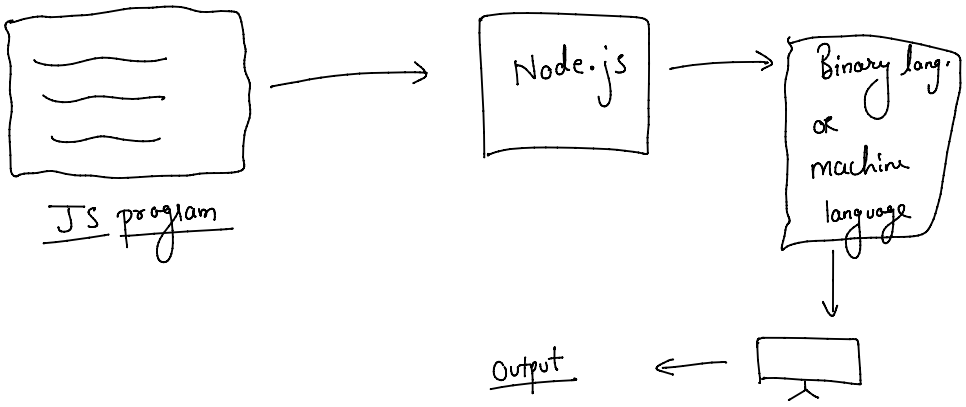




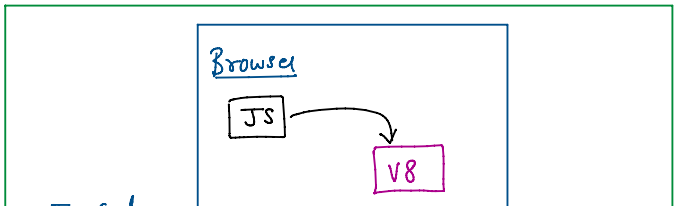
Variables (JS)

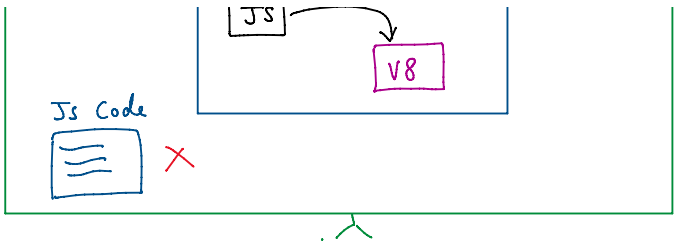
(vessels / Containers)

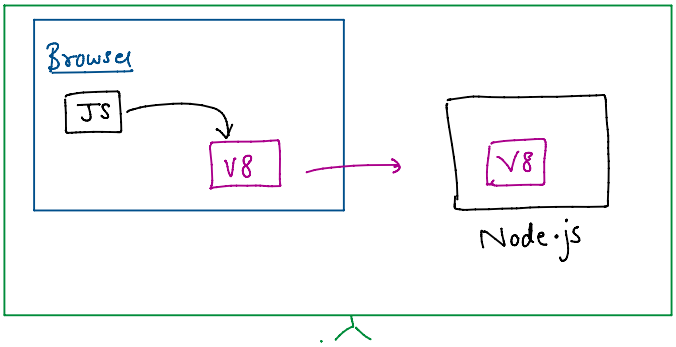
Gas Store (Node.js)

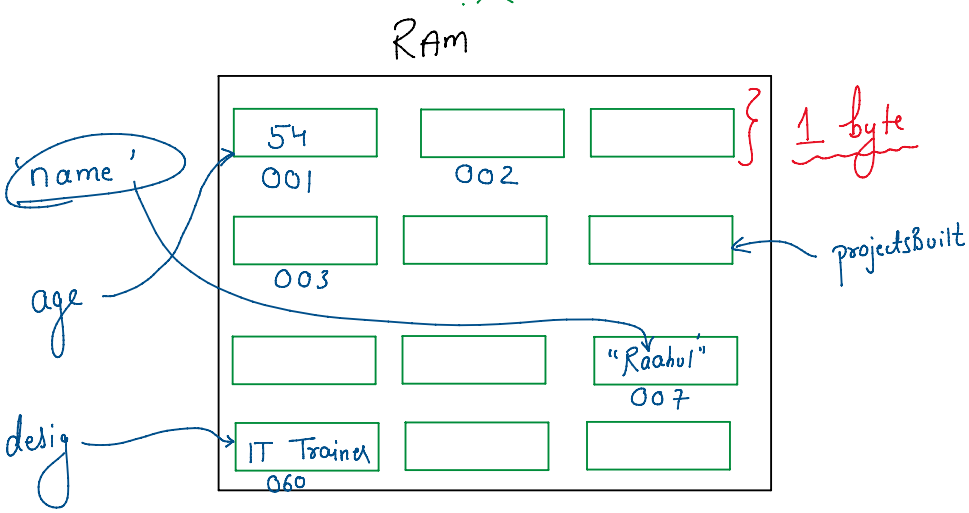


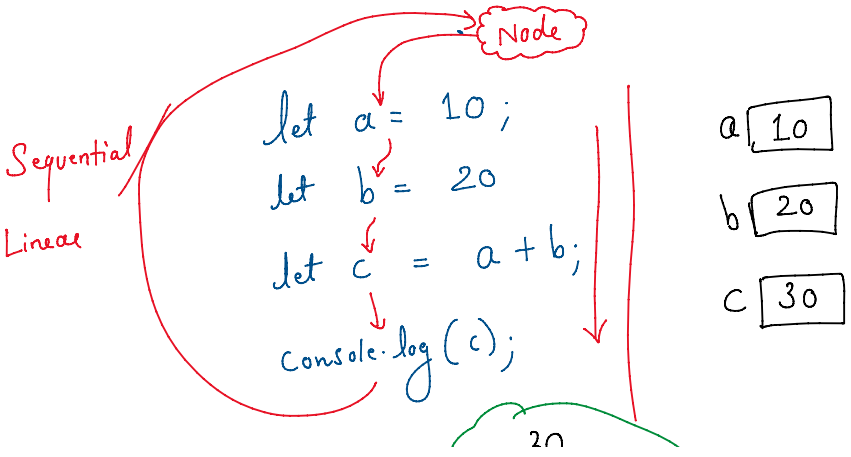
Before 2008:

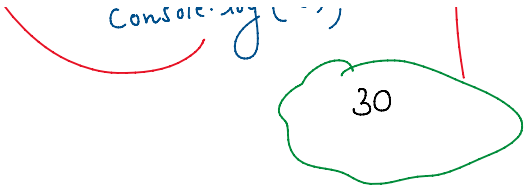



JS
V8
Js Code

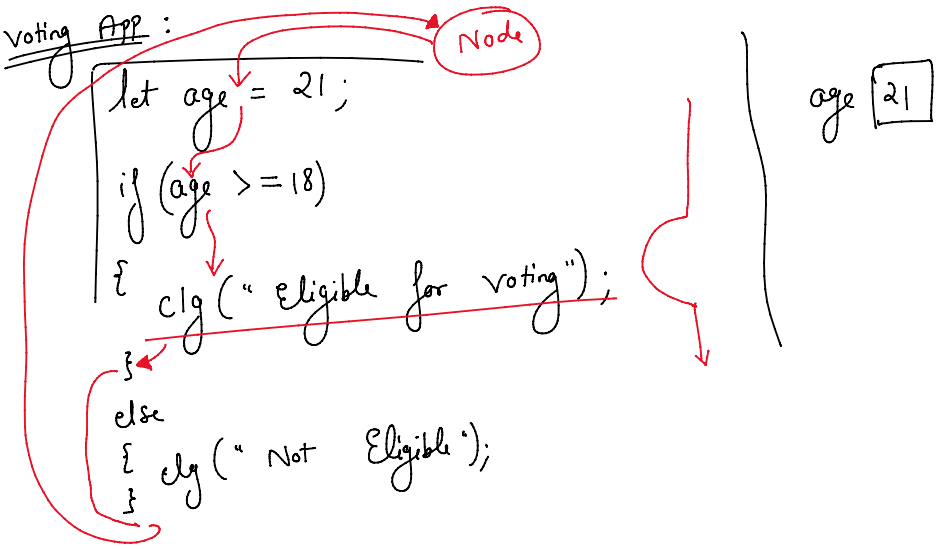

Browser
JS
V8
V8
Node.js


RAM
'name'
age
desig
54
001
002
003
"Raahul"
007
IT Trainer
060
1 byte
projectsBuilt


Node
Sequential
Linear
let a = 10;
let b = 20
let c = a + b;
console.log(c);
20
a 10
b 20
c 30



Voting App :



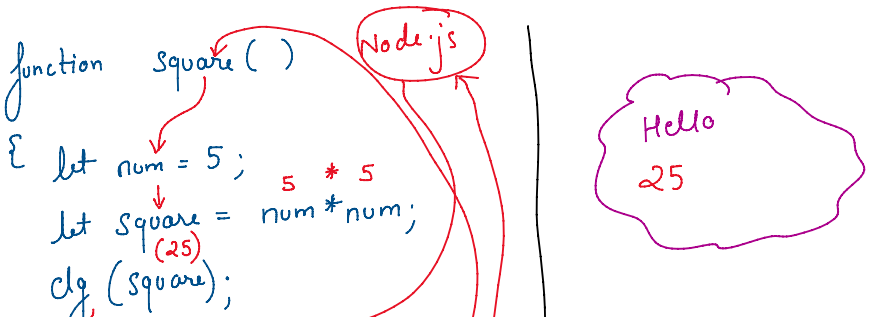
Functions

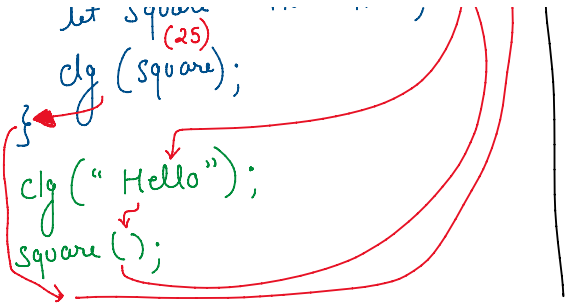
makeTea

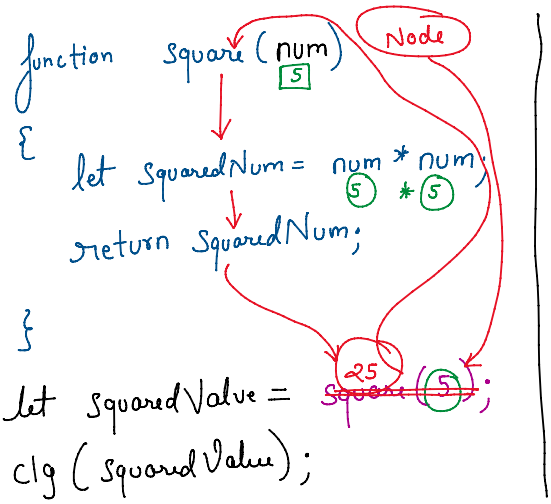
- Take a vessel
- Take water
- Switch on gas
- put sugar, tea leaves and milk
- Strain tea

JS function

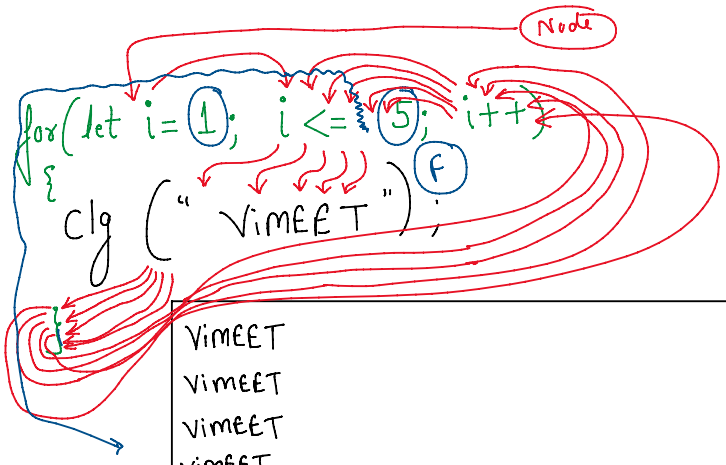
```
function func-Name ( inputs)
{
   // Statements

}
```







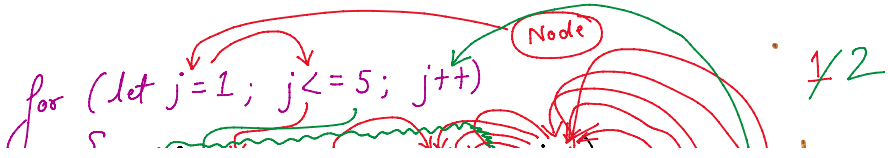

```
*
* *
* * *
* * * *
* * * * *
```



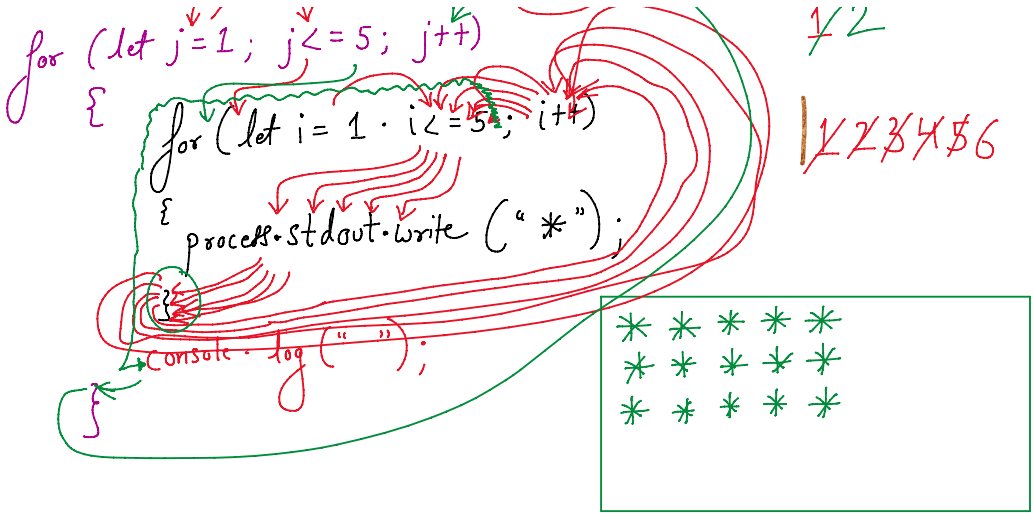

```
VimEET
VimEET
VimEET
VimEET
VimEET
```

1 X Z $ Y $ 6

```
* * * * *
* * * * *
* * * * *
* * * * *
* *
```

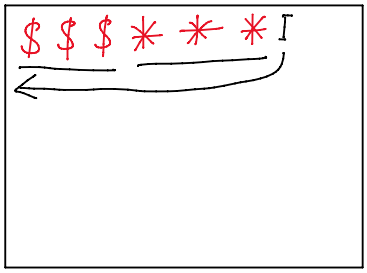


1 2




```
*                  → 1   1
* *                → 2   2
* * *              → 3   3
* * * *            → 4   4
* * * * *          → 5   5
```

```
$ $ $ * * *
$ $ $ * * *
$ $ $ * * *
```




```
for (int i = 1 ; i<=3 ; i++)
{
    for (int j=1 ; j<=3; j++)
    {
        process.stdout.write ("$ ");
    }
    for( int k=1; k<=3 ; k++)
    {
        process.stdout.write ("* ");
    }
    console.log ();
}
```

```
$ $ $ *   → 1
$ $ $ * * → 2
$ $ $ * * * → 3
```

```
for (let i = 1 ; i<=3 ; i++)
{
    for (let j=1; j<=3; j++)
    {
        p.s.w("$ ");
    }
    for (let k=1; k<=i ; k++)
```

```
        for (let k = 1; k <= i ; k++)
        {
          p.s.w("* ");
        }
          clg();
    }
```

```
for(let i=1; i<=5 ; i++)
{
    for(let j=5 ; j >= i ; j--)
    {
      p.s.w(" ");
    }
    for(let k=1 ; K<= i ; K++)
    {
      p.s.w("* ");
    }
      clg();
}
```

5 - 5 :

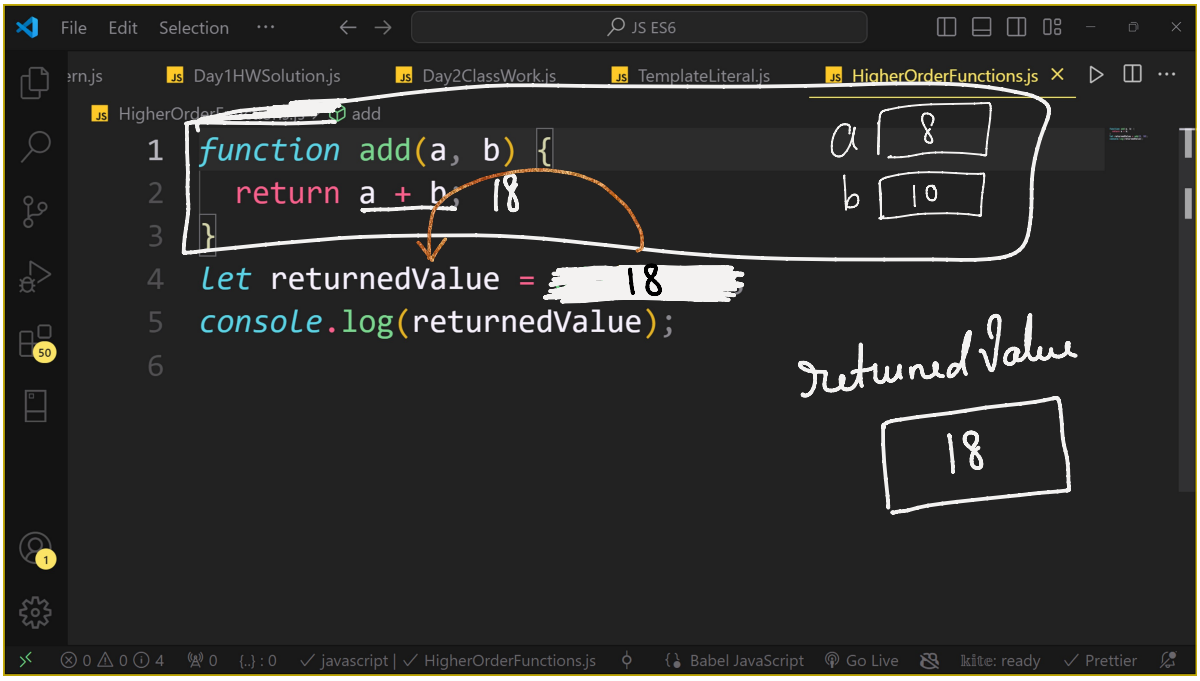
```
- - - - - *  → 1
- - - - * *  → 2
- - - * * *  → 3
- - * * * *  → 4
- * * * * *  → 5
```

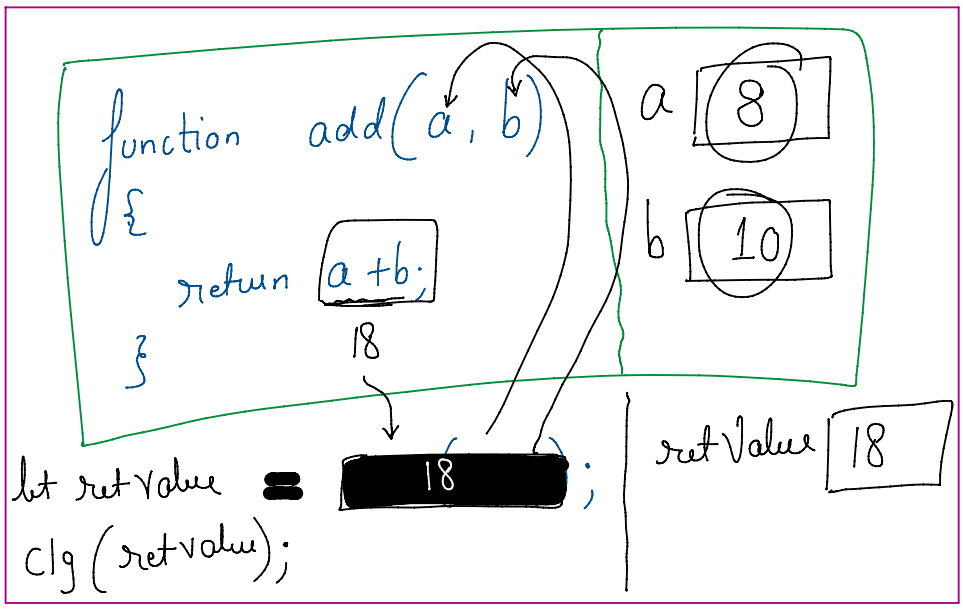
11 lines

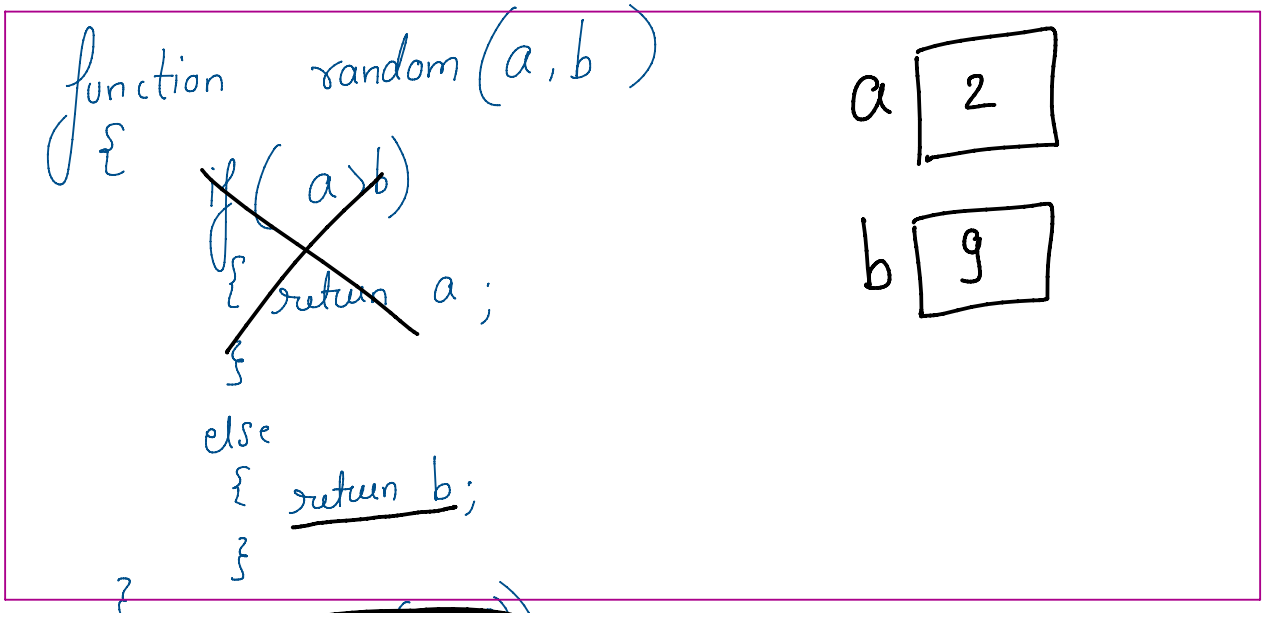
5 lines → 5 lines → 5 lines

15 lines

```
greet()
{
  5 lines
}

greet()
greet()
greet()
```

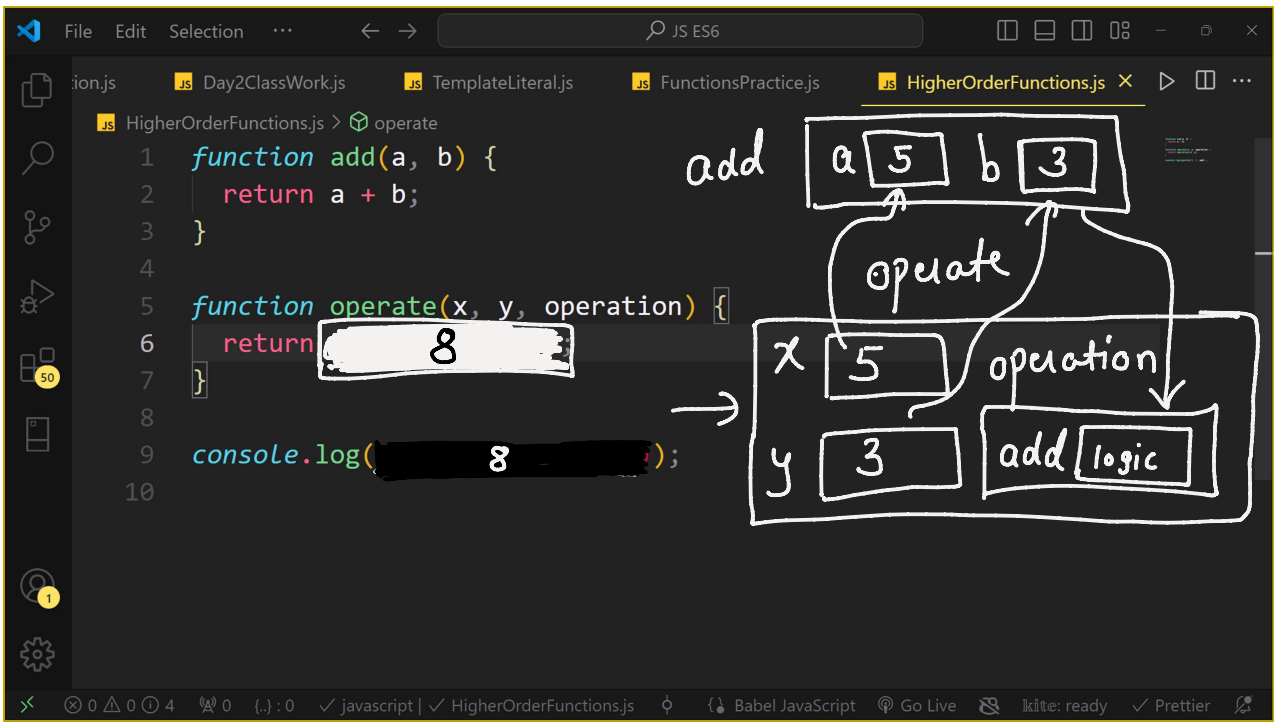

File Edit Selection
JS ES6
Day1HWSolution.js
Day2ClassWork.js
TemplateLiteral.js
HigherOrderFunctions.js
add
1 function add(a, b) {
2 return a + b;
3 }
4 let returnedValue = 18
5 console.log(returnedValue);
6
a 8
b 10
returnedValue
18
javascript | HigherOrderFunctions.js
Babel JavaScript
Go Live
Prettier

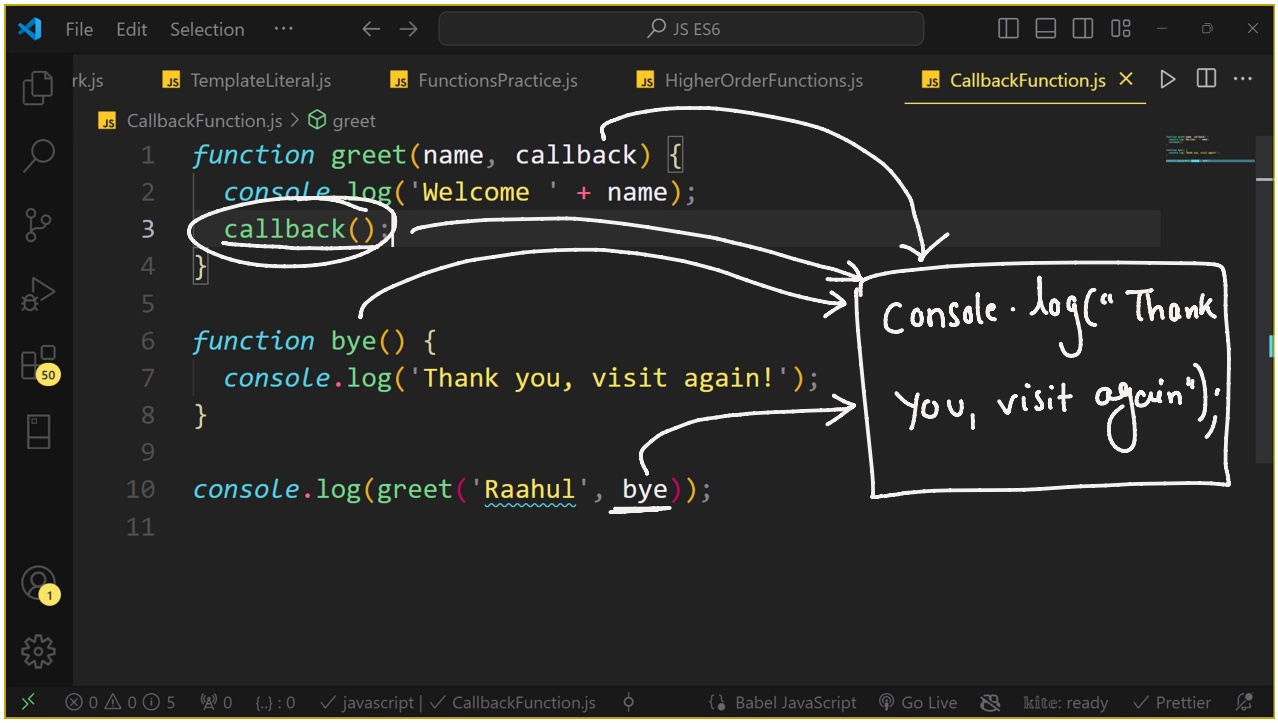

function add(a, b)
{
return a+b;
}
18
a 8
b 10
let retValue = 18;
clg(retvalue);
retValue 18

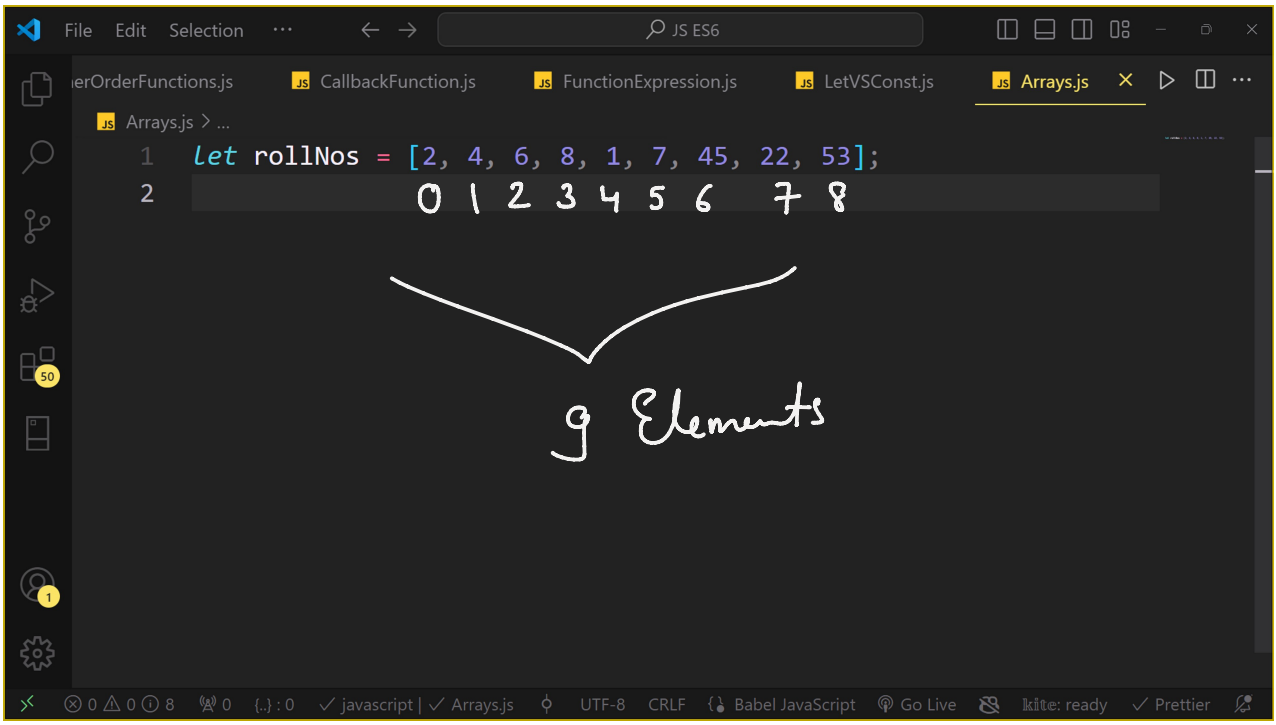

function random(a,b)
{
if(a>b)
{ return a;
}
else
{ return b;
}
}
a 2
b 9

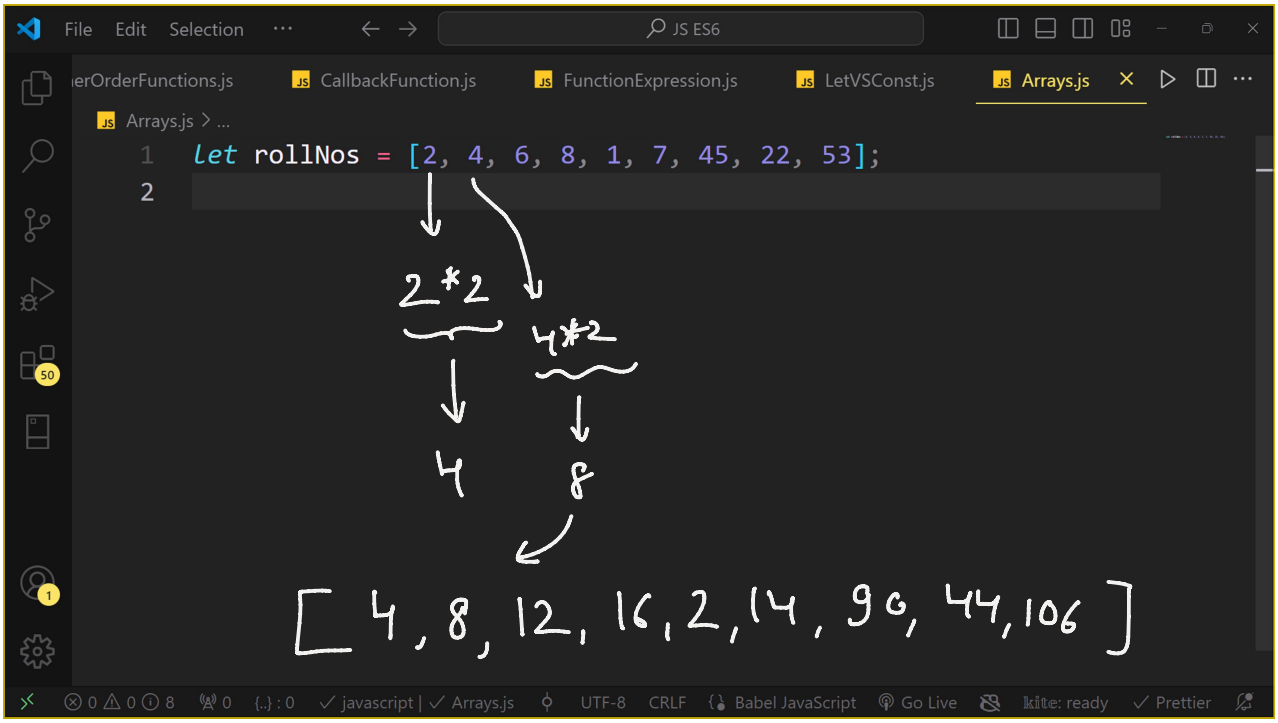
```
}
}
clg( [redacted] );
```

Higher Order Functions :




File Edit Selection
JS ES6
TemplateLiteral.js
FunctionsPractice.js
HigherOrderFunctions.js
CallbackFunction.js
CallbackFunction.js > greet
function greet(name, callback) {
console.log('Welcome ' + name);
callback();
}
function bye() {
console.log('Thank you, visit again!');
}
console.log(greet('Raahul', bye));
Console.log("Thank you, visit again");


File Edit Selection
JS ES6
CallbackFunction.js
FunctionExpression.js
LetVSConst.js
Arrays.js
Arrays.js > ...
let rollNos = [2, 4, 6, 8, 1, 7, 45, 22, 53];
0 1 2 3 4 5 6 7 8
9 Elements

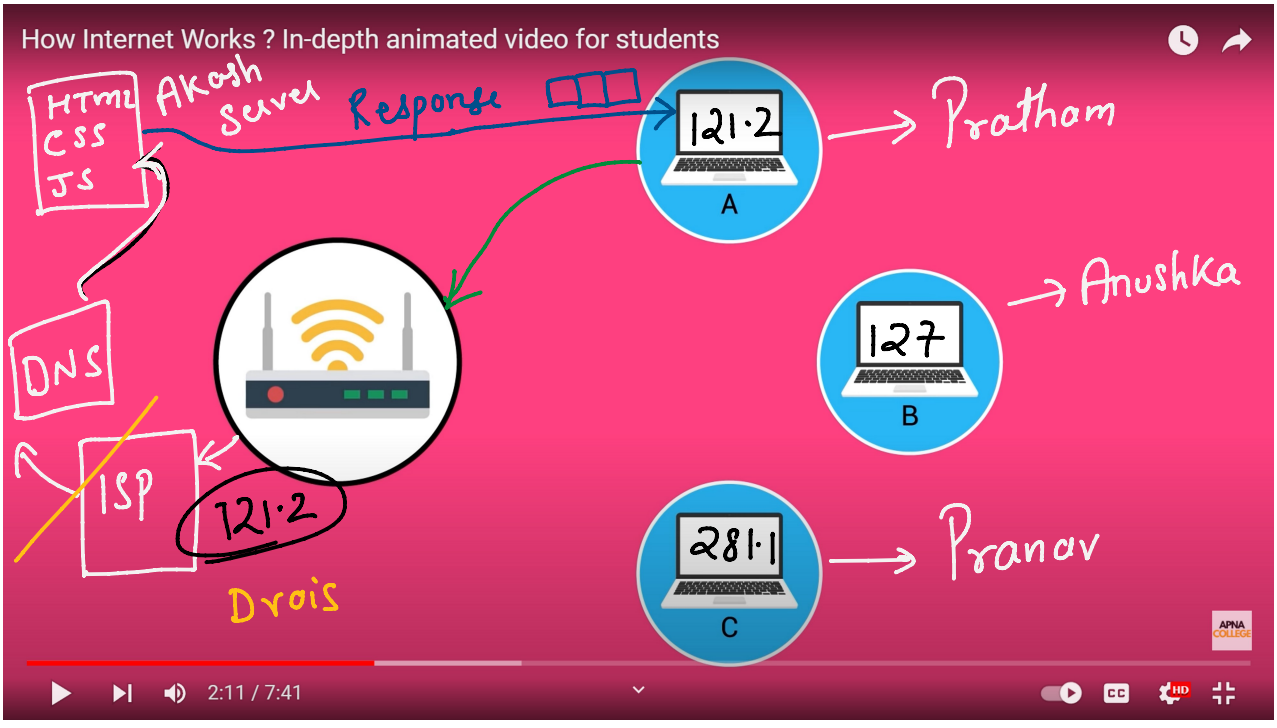


BackEnd :

Server

Application

Database



DNS

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