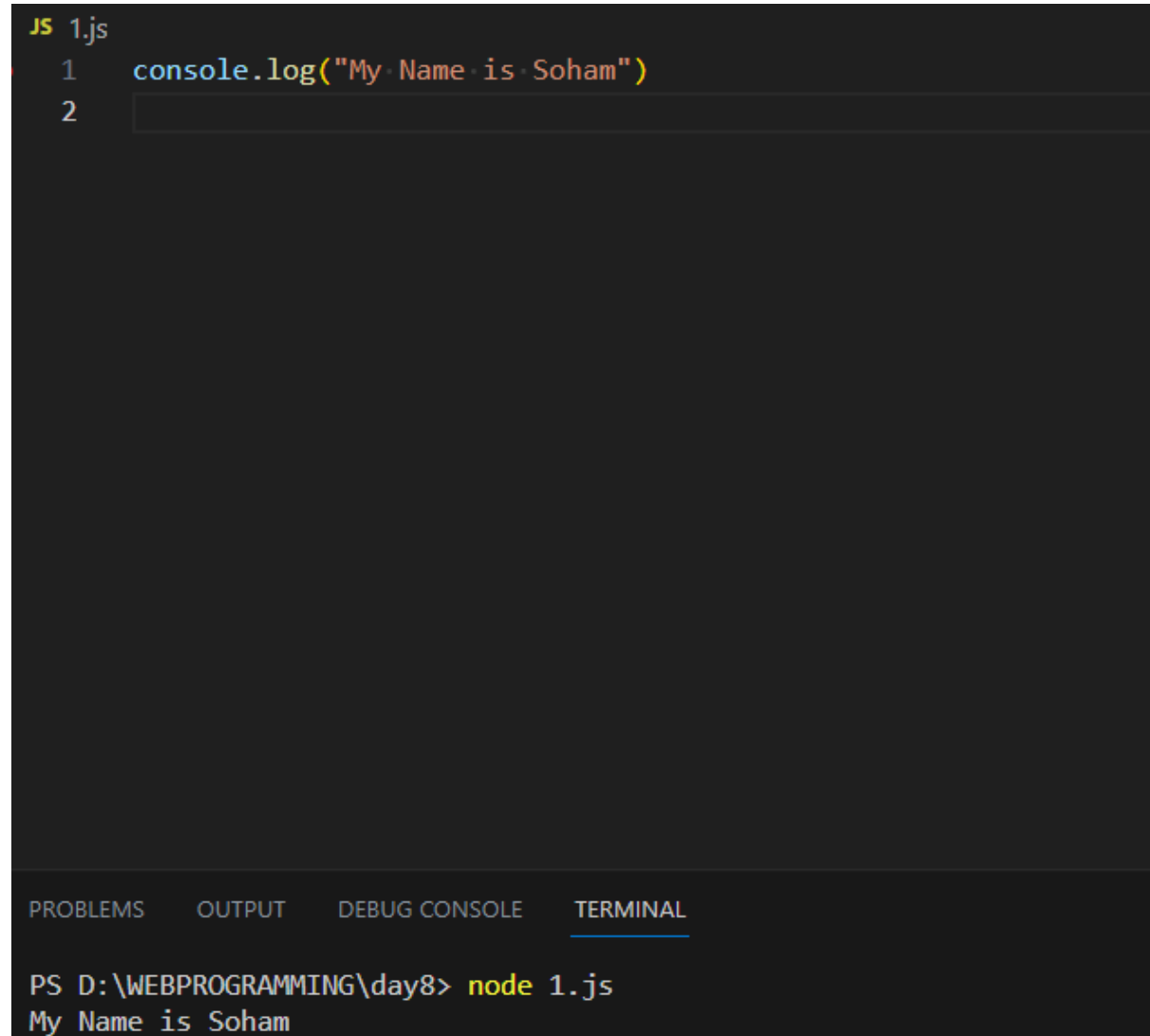


## Lab Assignment [WPT] – Day 8

Name

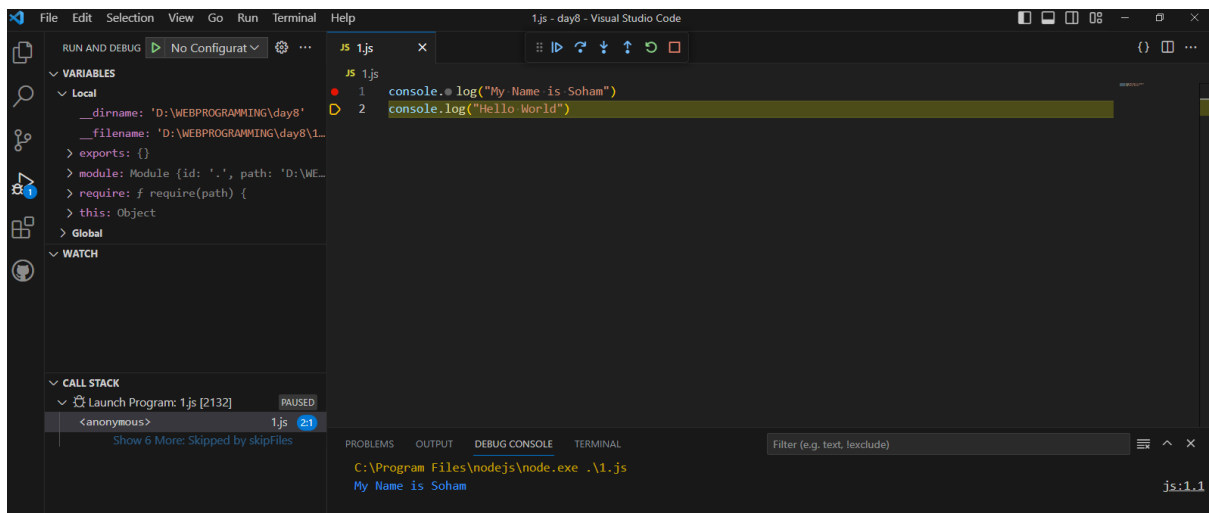
I Write your first nodejs Program. Run the program using command prompt. Run the program using Run And Debug option Debug the program, apply breakpoint.



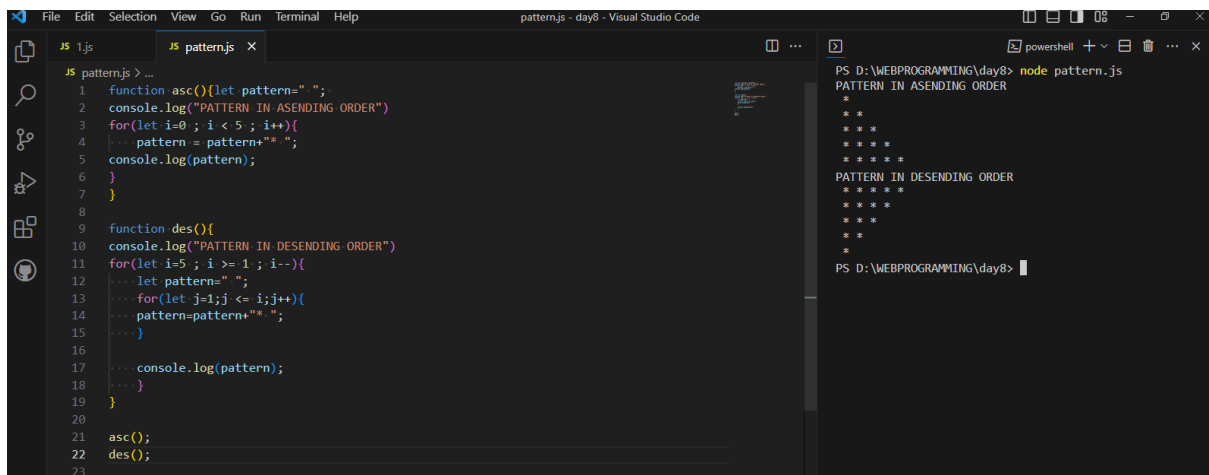
```
JS 1.js
1  console.log("My Name is Soham")
2

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS D:\WEBPROGRAMMING\day8> node 1.js
My Name is Soham
```

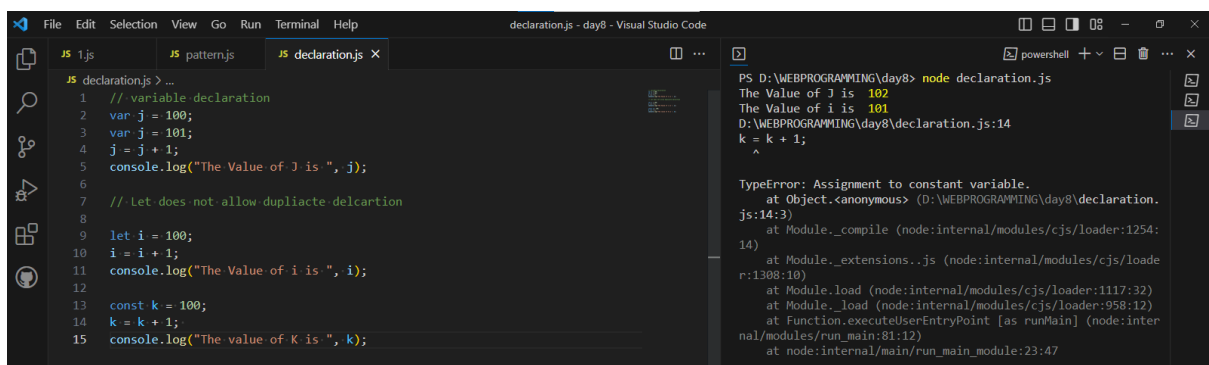


## II Pattern Program - Print Star Ascending, Descending.

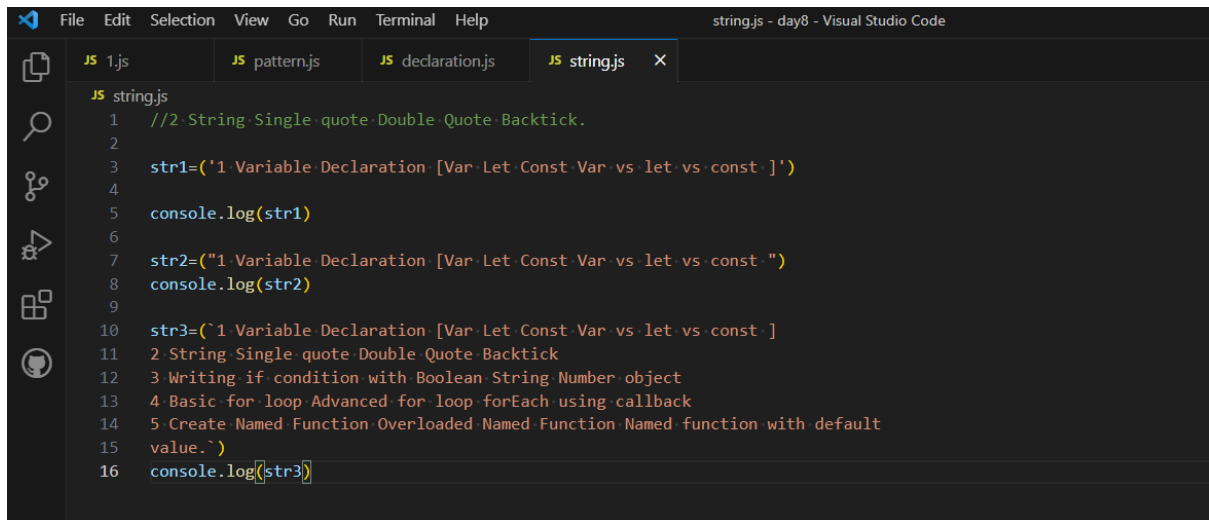


## III Practice and display

### 1 Variable Declaration [Var Let Const Var vs let vs const ]

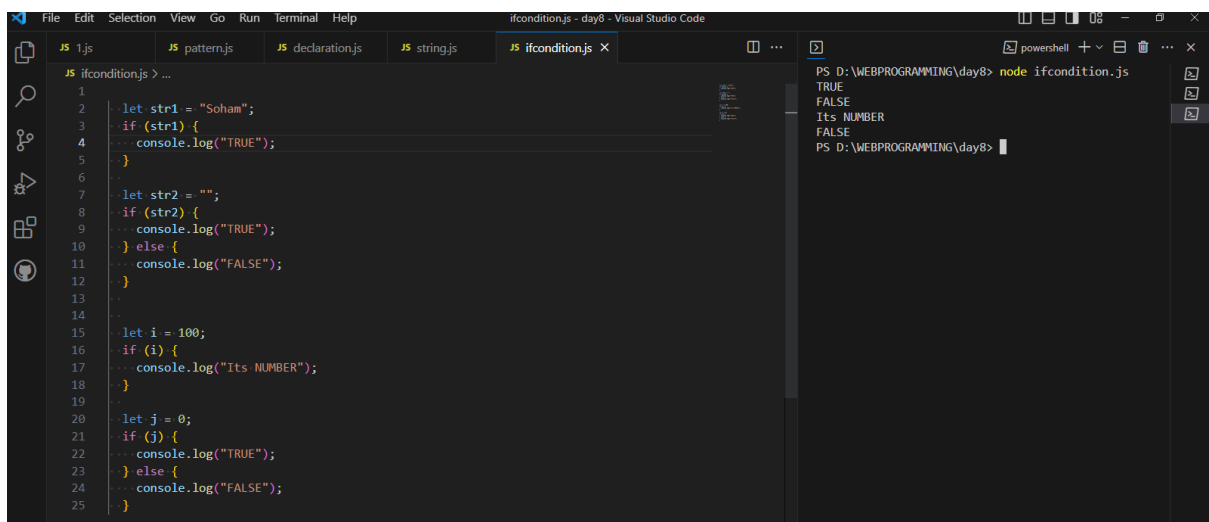


### 2 String Single quote Double Quote Backtick.



```
1 //2 String:Single quote Double Quote Backtick.
2
3 str1=('1 Variable Declaration [Var Let Const Var vs let vs const ]')
4
5 console.log(str1)
6
7 str2=("1 Variable Declaration [Var Let Const Var vs let vs const ")
8 console.log(str2)
9
10 str3=('1 Variable Declaration [Var Let Const Var vs let vs const ]
11 2 String:Single quote Double Quote Backtick
12 3 Writing if condition with Boolean String Number object
13 4 Basic for loop Advanced for loop forEach using callback
14 5 Create Named Function Overloaded Named Function Named function with default
15 value.')
16 console.log(str3)
```

### 3 Writing if condition with Boolean String Number object

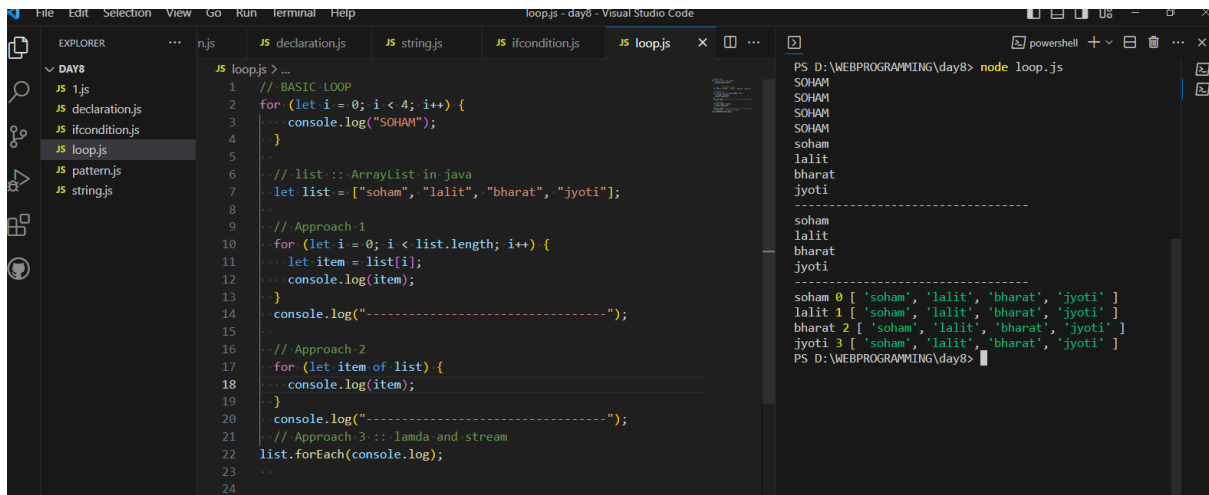


```
1
2 let str1 = "Soham";
3 if (str1) {
4   console.log("TRUE");
5 }
6
7 let str2 = "";
8 if (str2) {
9   console.log("TRUE");
10 } else {
11   console.log("FALSE");
12 }
13
14
15 let i = 100;
16 if (i) {
17   console.log("Its NUMBER");
18 }
19
20 let j = 0;
21 if (j) {
22   console.log("TRUE");
23 } else {
24   console.log("FALSE");
25 }
```

Terminal Output:

```
PS D:\WEBPROGRAMMING\day8> node ifcondition.js
TRUE
FALSE
Its NUMBER
FALSE
PS D:\WEBPROGRAMMING\day8>
```

### 4 Basic for loop Advanced for loop forEach using callback.



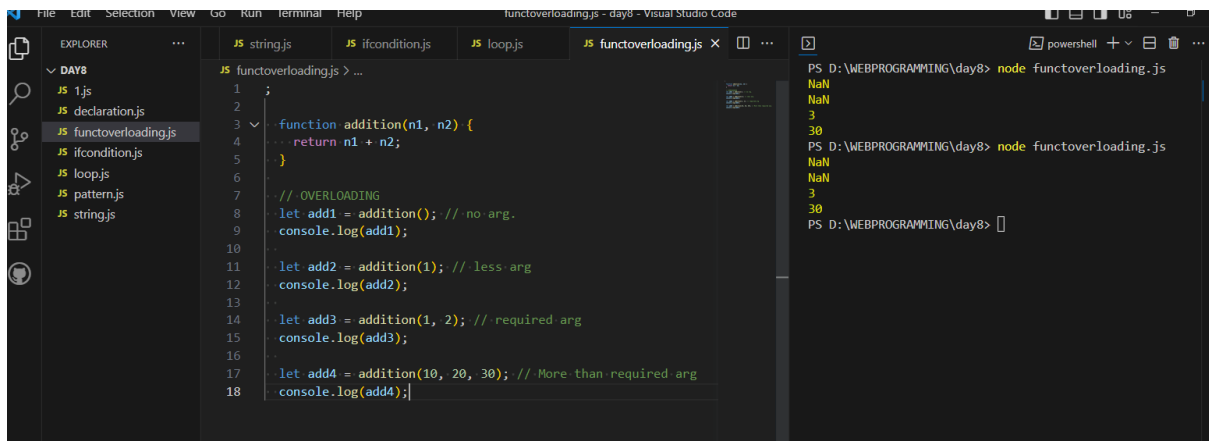
```
File Edit Selection View Go Run Terminal Help
loop.js - day8 - Visual Studio Code

EXPLORER
  DAYS
    1.js
    declaration.js
    ifcondition.js
    loop.js
    pattern.js
    string.js

JS loop.js
1 // BASIC LOOP
2 for (let i = 0; i < 4; i++) {
3   console.log("SOHAM");
4 }
5
6 // list :: ArrayList in java
7 let list = ["soham", "lalit", "bharat", "jyoti"];
8
9 // Approach 1
10 for (let i = 0; i < list.length; i++) {
11   let item = list[i];
12   console.log(item);
13 }
14 console.log("-----");
15
16 // Approach 2
17 for (let item of list) {
18   console.log(item);
19 }
20 console.log("-----");
21 // Approach 3 :: lamda and stream
22 list.forEach(console.log);
23
24

Terminal
PS D:\WEBPROGRAMMING\day8> node loop.js
SOHAM
SOHAM
SOHAM
SOHAM
soham
lalit
bharat
jyoti
-----
soham
lalit
bharat
jyoti
-----
soham 0 [ 'soham', 'lalit', 'bharat', 'jyoti' ]
lalit 1 [ 'soham', 'lalit', 'bharat', 'jyoti' ]
bharat 2 [ 'soham', 'lalit', 'bharat', 'jyoti' ]
jyoti 3 [ 'soham', 'lalit', 'bharat', 'jyoti' ]
PS D:\WEBPROGRAMMING\day8>
```

5 Create Named Function Overloaded Named Function Named function with default value.



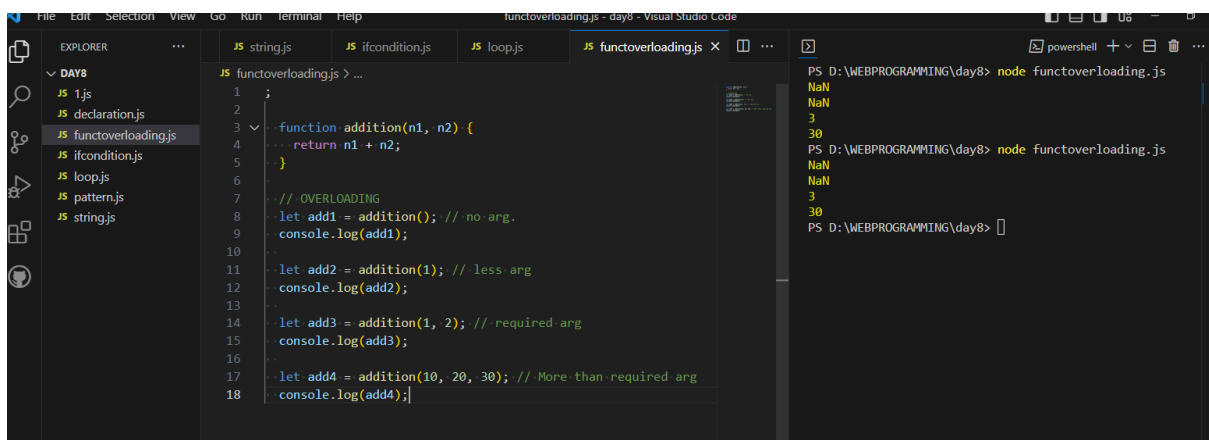
```
File Edit Selection View Go Run Terminal Help
functoverloading.js - day8 - Visual Studio Code

EXPLORER
  DAYS
    1.js
    declaration.js
    functoverloading.js
    ifcondition.js
    loop.js
    pattern.js
    string.js

JS functoverloading.js
1 ;
2
3 function addition(n1, n2) {
4   return n1 + n2;
5 }
6
7 // OVERLOADING
8 let add1 = addition(); // no arg.
9 console.log(add1);
10
11 let add2 = addition(1); // less arg
12 console.log(add2);
13
14 let add3 = addition(1, 2); // required arg
15 console.log(add3);
16
17 let add4 = addition(10, 20, 30); // More than required arg
18 console.log(add4);

Terminal
PS D:\WEBPROGRAMMING\day8> node functoverloading.js
NaN
NaN
3
30
PS D:\WEBPROGRAMMING\day8> node functoverloading.js
NaN
NaN
3
30
PS D:\WEBPROGRAMMING\day8>
```

6 Create a named function - Call function with, 2 input param 0 param 1 param 2 param 3 param



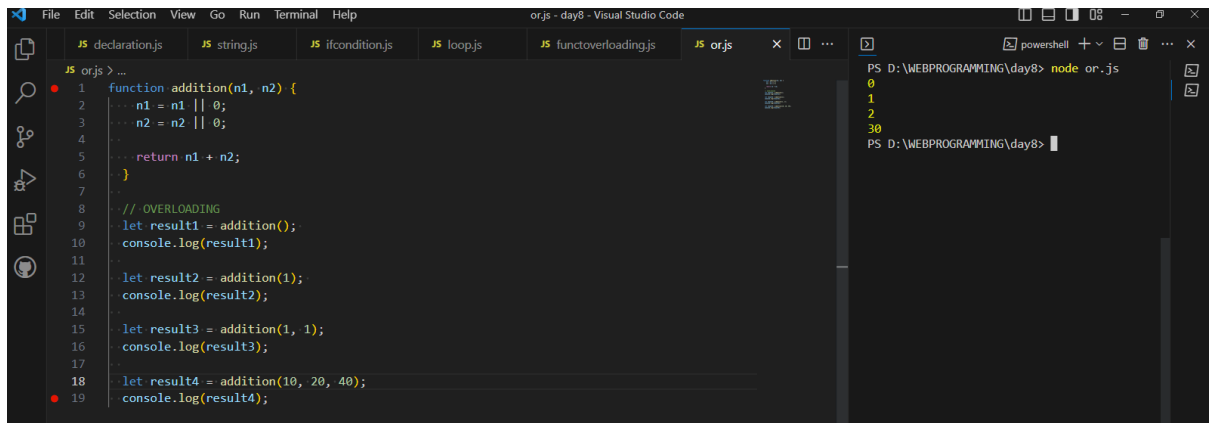
```
File Edit Selection View Go Run Terminal Help
functoverloading.js - day8 - Visual Studio Code

EXPLORER
  DAYS
    1.js
    declaration.js
    functoverloading.js
    ifcondition.js
    loop.js
    pattern.js
    string.js

JS functoverloading.js
1 ;
2
3 function addition(n1, n2) {
4   return n1 + n2;
5 }
6
7 // OVERLOADING
8 let add1 = addition(); // no arg.
9 console.log(add1);
10
11 let add2 = addition(1); // less arg
12 console.log(add2);
13
14 let add3 = addition(1, 2); // required arg
15 console.log(add3);
16
17 let add4 = addition(10, 20, 30); // More than required arg
18 console.log(add4);

Terminal
PS D:\WEBPROGRAMMING\day8> node functoverloading.js
NaN
NaN
3
30
PS D:\WEBPROGRAMMING\day8> node functoverloading.js
NaN
NaN
3
30
PS D:\WEBPROGRAMMING\day8>
```

## 7 Putting Condition Putting shortcut using || By Default Value



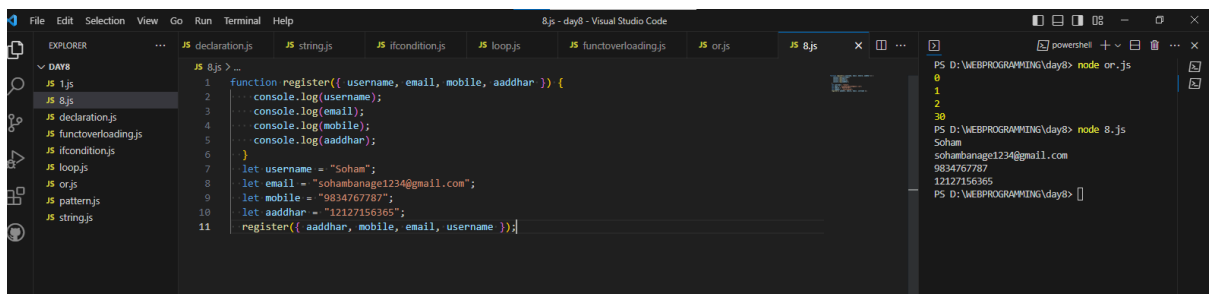
```
File Edit Selection View Go Run Terminal Help
or.js - day8 - Visual Studio Code

JS or.js > ...
1 function addition(n1, n2) {
2   ... n1 = n1 || 0;
3   ... n2 = n2 || 0;
4
5   ... return n1 + n2;
6 }
7
8 // OVERLOADING
9 let result1 = addition();
10 console.log(result1);
11
12 let result2 = addition(1);
13 console.log(result2);
14
15 let result3 = addition(1, 1);
16 console.log(result3);
17
18 let result4 = addition(10, 20, 40);
19 console.log(result4);

PS D:\WEBPROGRAMMING\day8> node or.js
0
1
2
30
PS D:\WEBPROGRAMMING\day8>
```

## 8 Define function that accepts unordered param - Pass all the param - Pass less param

Define with default value - Accepts less param Pass more param.



```
File Edit Selection View Go Run Terminal Help
8.js - day8 - Visual Studio Code

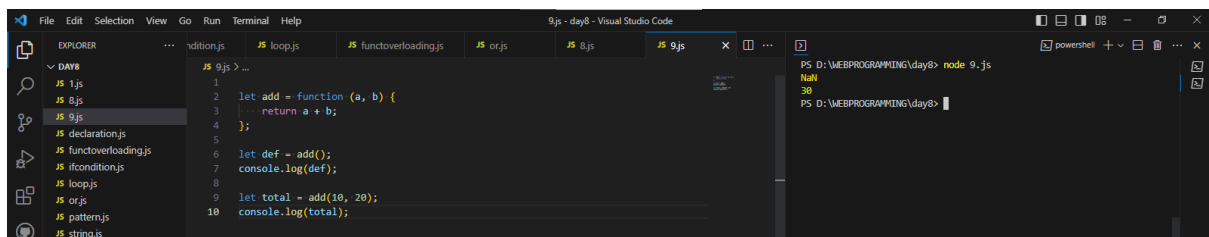
EXPLORER
  DAYS
    JS 1.js
    JS 8.js
    JS declaration.js
    JS functoverloading.js
    JS ifcondition.js
    JS loop.js
    JS or.js
    JS patterns.js
    JS strings.js

JS 8.js > ...
1 function register({ username, email, mobile, aadhar }) {
2   console.log(username);
3   console.log(email);
4   console.log(mobile);
5   console.log(aadhar);
6 }
7
8 let username = "Soham";
9 let email = "sohambanage1234@gmail.com";
10 let mobile = "9834767787";
11 let aadhar = "12127156365";
12 register({ aadhar, mobile, email, username });

PS D:\WEBPROGRAMMING\day8> node 8.js
Soham
sohambanage1234@gmail.com
9834767787
12127156365
PS D:\WEBPROGRAMMING\day8>
```

## 9 Create Anonymous Function Overloaded Anonymous Function Anonymous function

with default value



```
File Edit Selection View Go Run Terminal Help
9.js - day8 - Visual Studio Code

EXPLORER
  DAYS
    JS 1.js
    JS 8.js
    JS 9.js
    JS declaration.js
    JS functoverloading.js
    JS ifcondition.js
    JS loop.js
    JS or.js
    JS patterns.js
    JS strings.js

JS 9.js > ...
1
2 let add = function (a, b) {
3   ... return a + b;
4 };
5
6 let def = add();
7 console.log(def);
8
9 let total = add(10, 20);
10 console.log(total);

PS D:\WEBPROGRAMMING\day8> node 9.js
NaN
30
PS D:\WEBPROGRAMMING\day8>
```

## 10 Create Arrow Function , Overloaded Arrow Function , Arrow function with default Value

