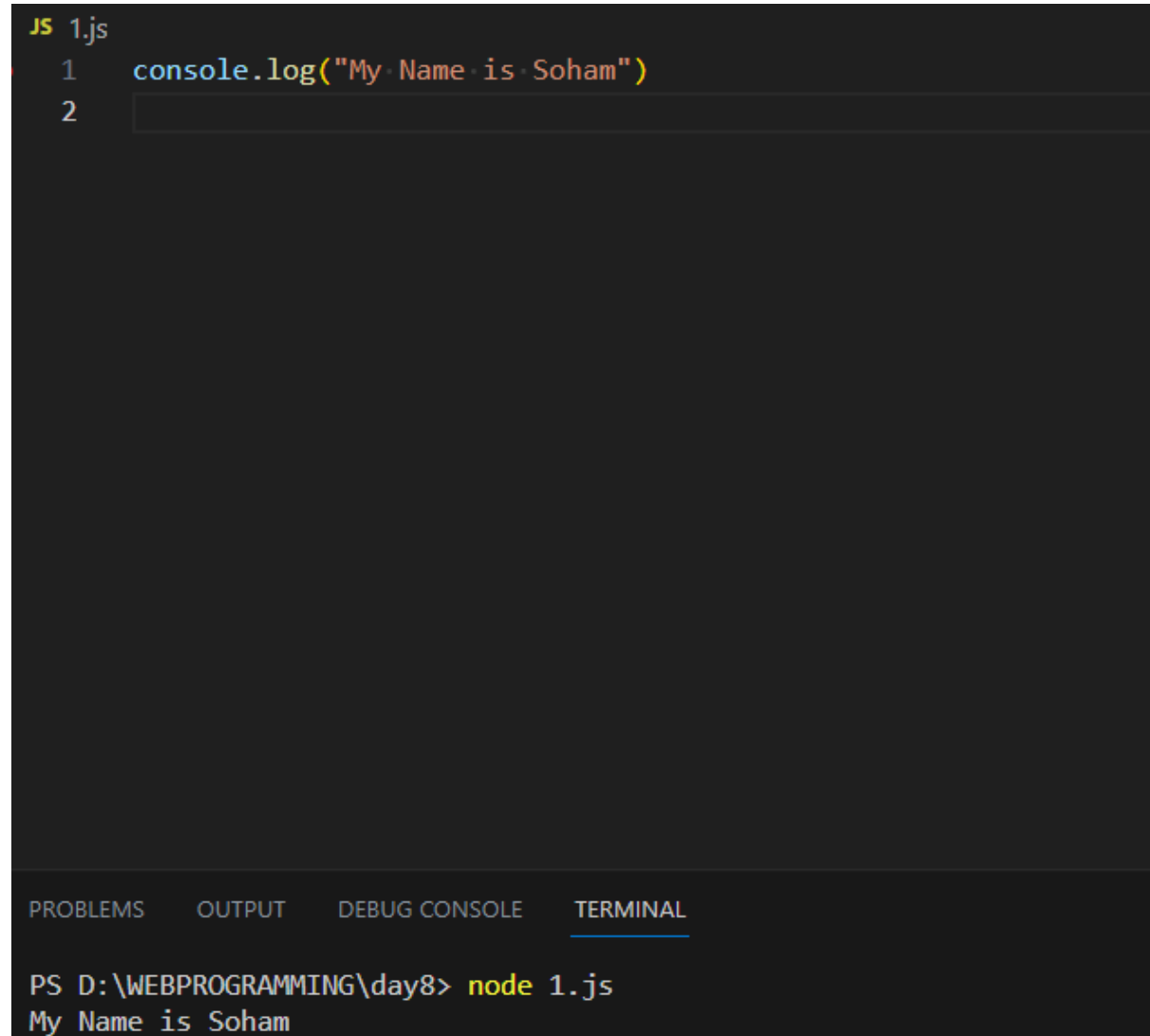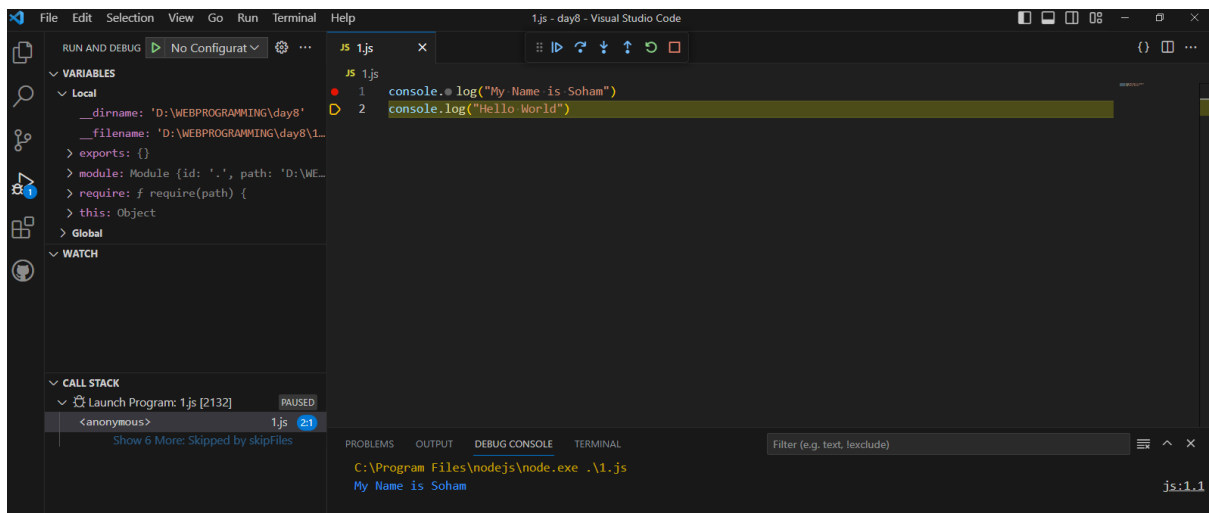# Lab Assignment [WPT] – Day 8

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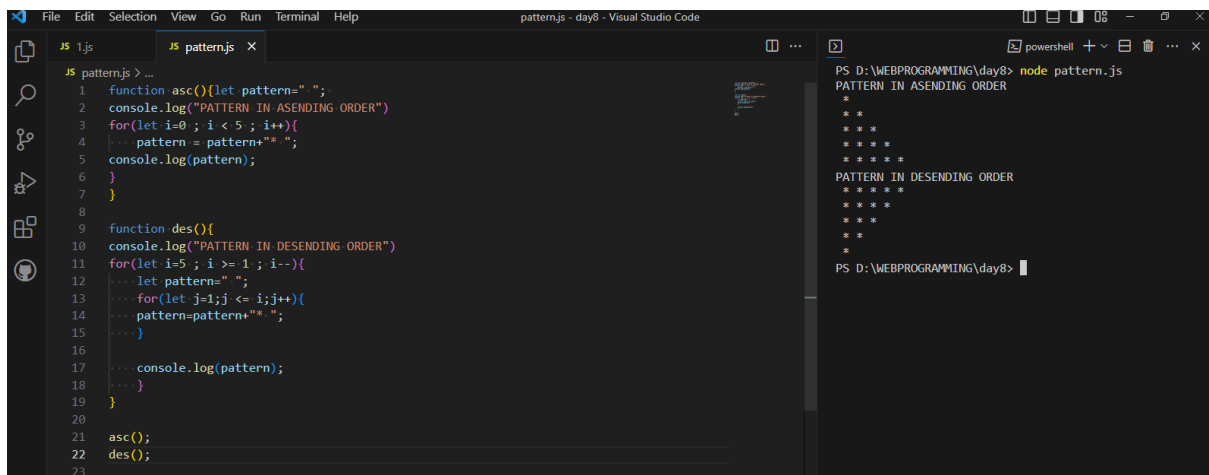
```js
console.log("My Name is Soham")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL
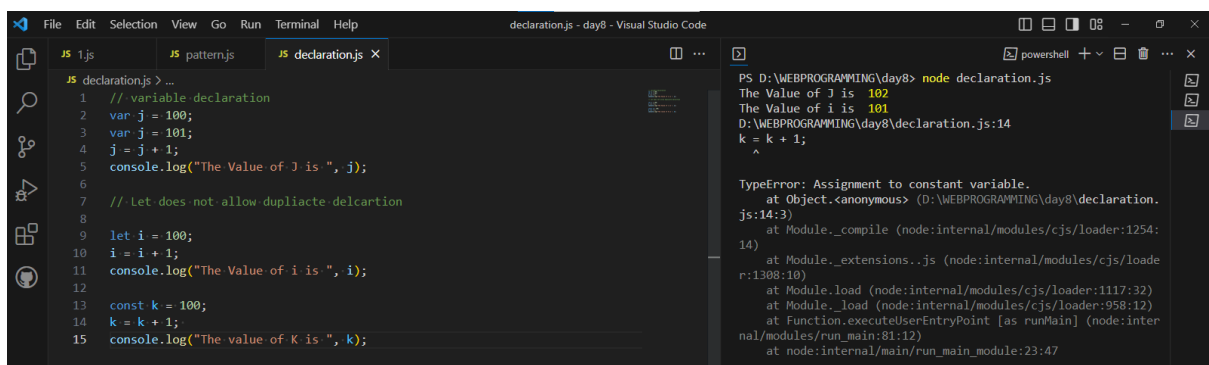
```
PS D:\WEBPROGRAMMING\day8> node 1.js
My Name is Soham
```

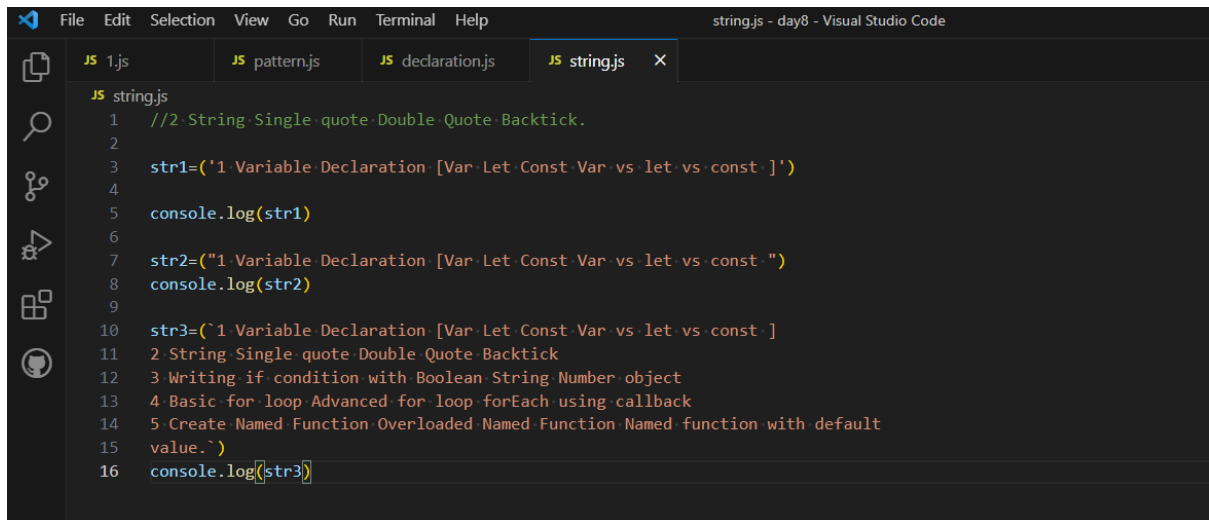II Pattern Program - Print Star Ascending, Descending.

III Practice and display

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

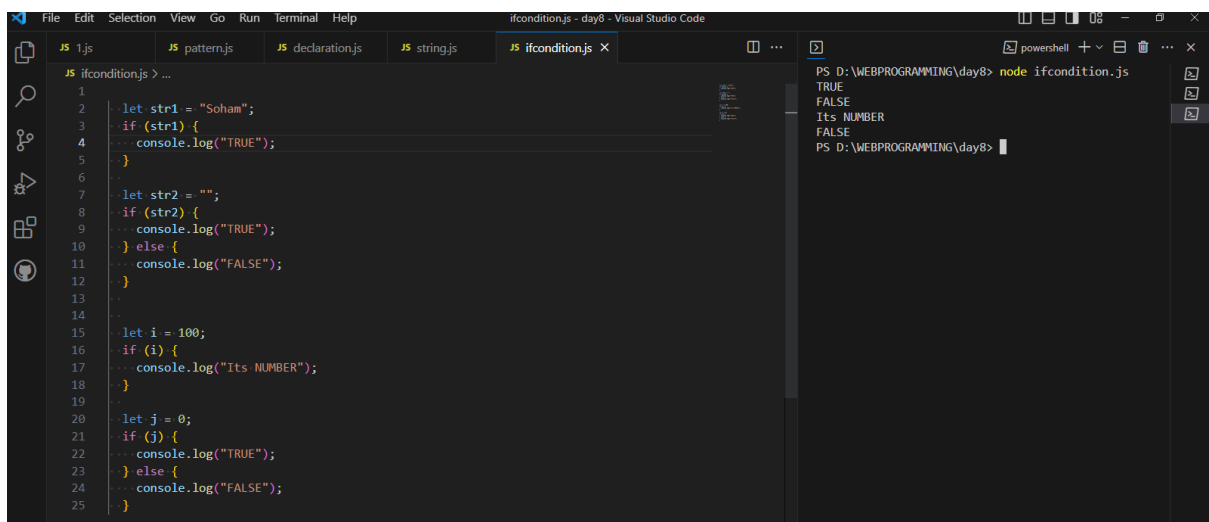2 String Single quote Double Quote Backtick.

```javascript
//2 String Single quote Double Quote Backtick.

str1=('1 Variable Declaration [Var Let Const Var vs let vs const ]')

console.log(str1)

str2=("1 Variable Declaration [Var Let Const Var vs let vs const ")
console.log(str2)

str3=(`1 Variable Declaration [Var Let Const Var vs let vs const ]
2 String Single quote Double Quote Backtick
3 Writing if condition with Boolean String Number object
4 Basic for loop Advanced for loop forEach using callback
5 Create Named Function Overloaded Named Function Named function with default
value.`)
console.log(str3)
```
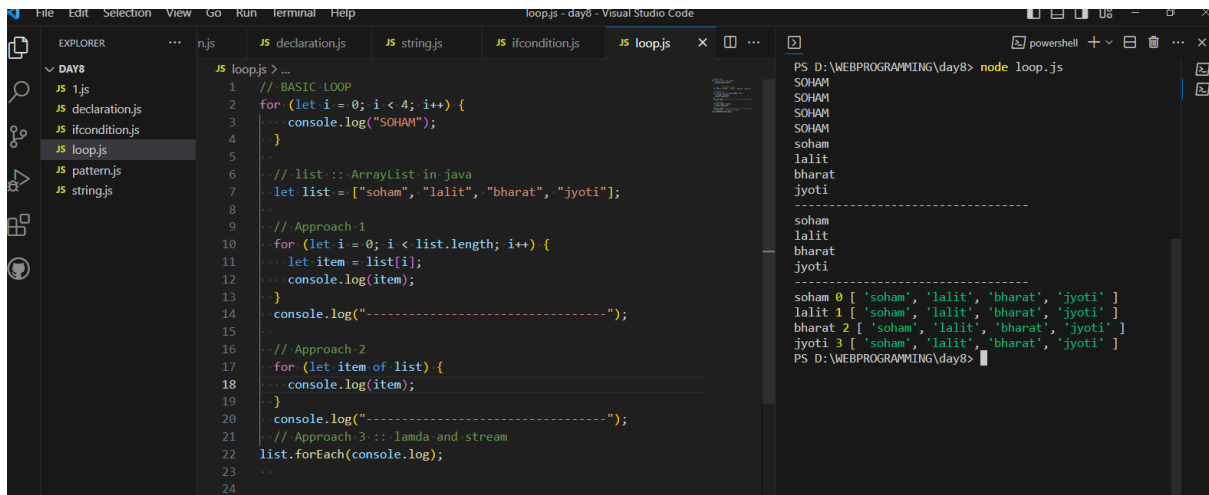
3 Writing if condition with Boolean String Number object


```javascript
let str1 = "Soham";
if (str1) {
    console.log("TRUE");
}

let str2 = "";
if (str2) {
    console.log("TRUE");
} else {
    console.log("FALSE");
}


let i = 100;
if (i) {
    console.log("Its NUMBER");
}

let j = 0;
if (j) {
    console.log("TRUE");
} else {
    console.log("FALSE");
}
```

4 Basic for loop Advanced for loop forEach using callback.
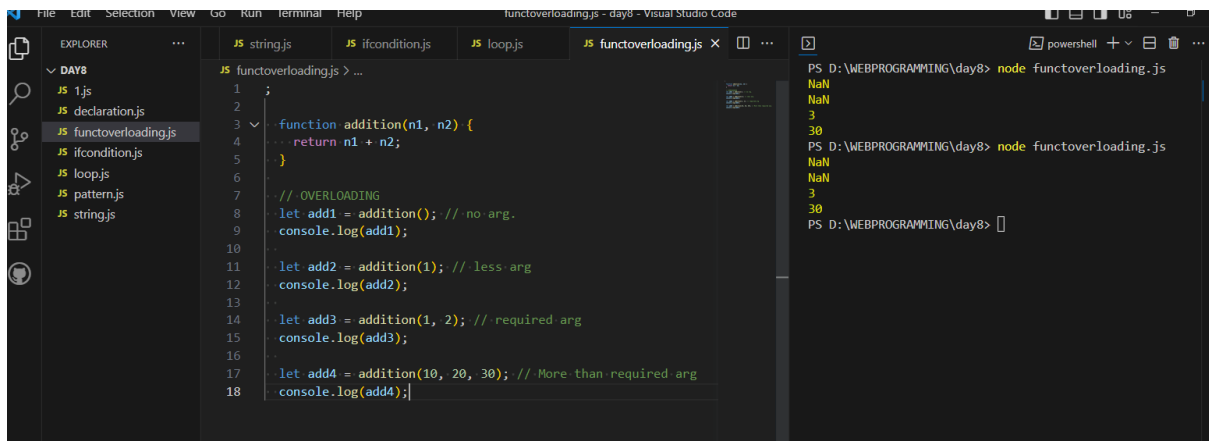
```javascript
// BASIC LOOP
for (let i = 0; i < 4; i++) {
    console.log("SOHAM");
}

// list ::: ArrayList in java
let list = ["soham", "lalit", "bharat", "jyoti"];

// Approach 1
for (let i = 0; i < list.length; i++) {
    let item = list[i];
    console.log(item);
}
console.log("--------------------------------");

// Approach 2
for (let item of list) {
    console.log(item);
}
console.log("--------------------------------");
// Approach 3 ::: lamda and stream
list.forEach(console.log);
```

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


```javascript
;

function addition(n1, n2) {
    return n1 + n2;
}

// OVERLOADING
let add1 = addition(); // no arg.
console.log(add1);

let add2 = addition(1); // less arg
console.log(add2);

let add3 = addition(1, 2); // required arg
console.log(add3);

let add4 = addition(10, 20, 30); // More than required arg
console.log(add4);
```

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


```javascript
;

function addition(n1, n2) {
    return n1 + n2;
}

// OVERLOADING
let add1 = addition(); // no arg.
console.log(add1);

let add2 = addition(1); // less arg
console.log(add2);

let add3 = addition(1, 2); // required arg
console.log(add3);

let add4 = addition(10, 20, 30); // More than required arg
console.log(add4);
```

7 Putting Condtion Putting shortcut using || By Default Value
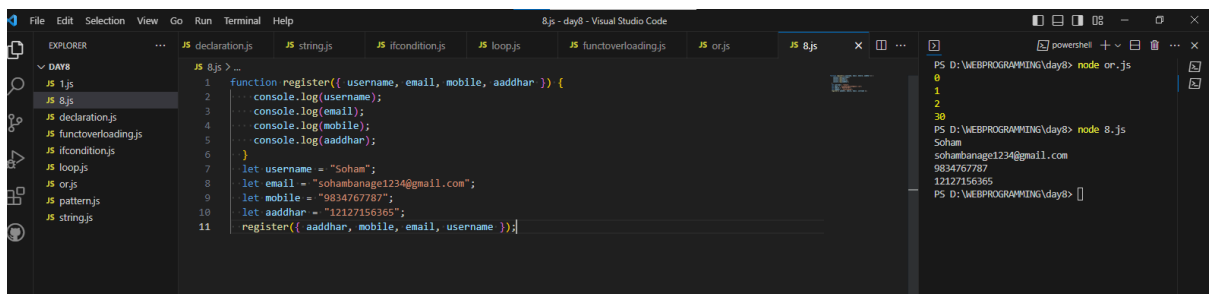
```javascript
function addition(n1, n2) {
    n1 = n1 || 0;
    n2 = n2 || 0;

    return n1 + n2;
}

// OVERLOADING
let result1 = addition();
console.log(result1);

let result2 = addition(1);
console.log(result2);

let result3 = addition(1, 1);
console.log(result3);

let result4 = addition(10, 20, 40);
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.
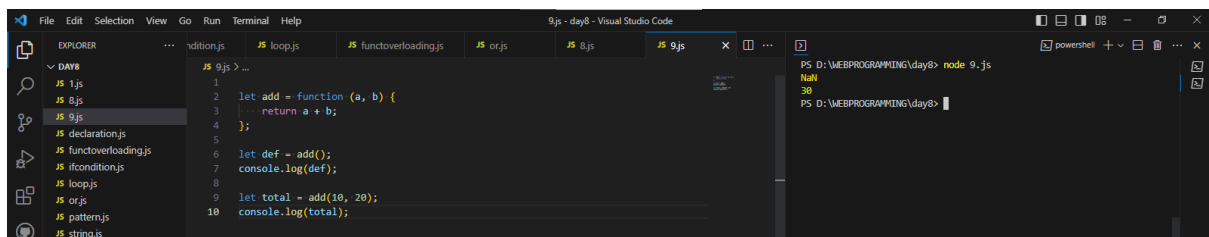
```javascript
function register({ username, email, mobile, aaddhar }) {
    console.log(username);
    console.log(email);
    console.log(mobile);
    console.log(aaddhar);
}
let username = "Soham";
let email = "sohambanage1234@gmail.com";
let mobile = "9834767787";
let aaddhar = "12127156365";
register({ aaddhar, mobile, email, username });
```

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

```javascript
let add = function (a, b) {
    return a + b;
};

let def = add();
console.log(def);

let total = add(10, 20);
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