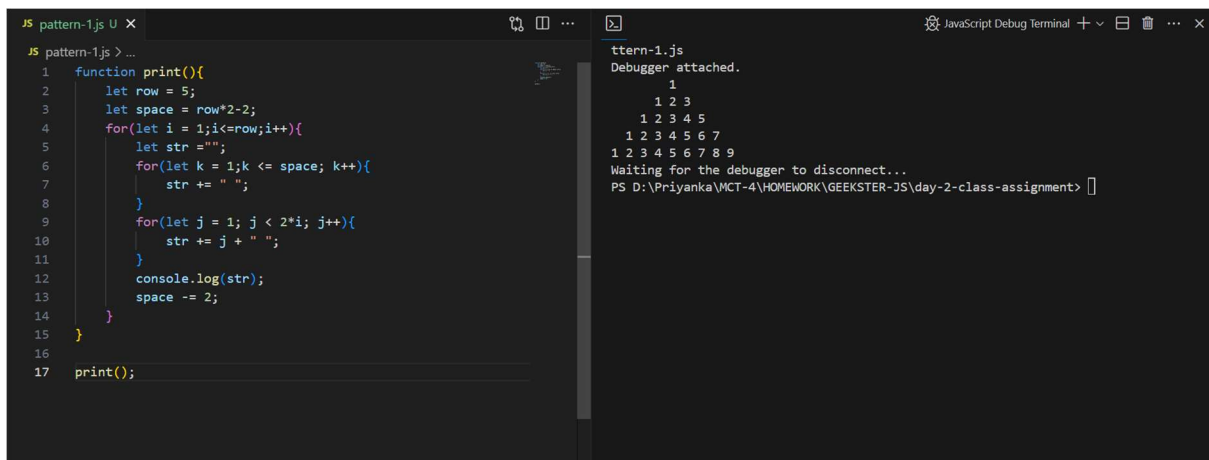


Q1.) Write a program in javascript to create a pattern like this

```
      1
    1 2 3
  1 2 3 4 5
1 2 3 4 5 6 7
1 2 3 4 5 6 7 8 9
```



The screenshot shows a JavaScript IDE with two panels. The left panel displays the source code for a file named 'pattern-1.js'. The code defines a 'print()' function that generates the pattern by using nested loops to add spaces and numbers to a string. The right panel shows the 'JavaScript Debug Terminal' with the output of the program, which matches the pattern shown in the previous block. The terminal also shows the debugger is attached and the current directory path.

```
JS pattern-1.js U X
JS pattern-1.js > ...
1 function print(){
2   let row = 5;
3   let space = row*2-2;
4   for(let i = 1; i <= row; i++){
5     let str = "";
6     for(let k = 1; k <= space; k++){
7       str += " ";
8     }
9     for(let j = 1; j < 2*i; j++){
10      str += j + " ";
11    }
12    console.log(str);
13    space -= 2;
14  }
15 }
16
17 print();

ttern-1.js
Debugger attached.
      1
    1 2 3
  1 2 3 4 5
1 2 3 4 5 6 7
1 2 3 4 5 6 7 8 9
Waiting for the debugger to disconnect...
PS D:\Priyanka\MCT-4\HOMEWORK\GEEKSTER-JS\day-2-class-assignment>
```

Q2.) Write a program in javascript to create a pattern like this

```

        1
      1 2
    1 2 3
  1 2 3 4
1 2 3 4 5
  1 2 3 4
    1 2 3
      1 2
        1

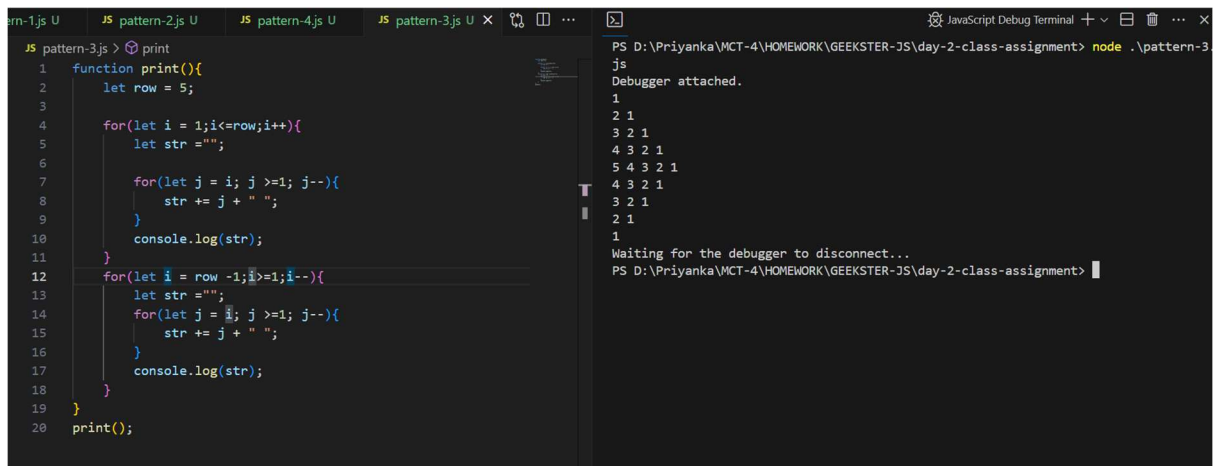
```

```
JS pattern-1.js U JS pattern-2.js U X JavaScript Debug Terminal + v [ ] ... X
JS pattern-2.js > print
1 function print(){
2   let row = 5;
3   let space = row*2-2;
4   for(let i = 1;i<=row;i++){
5     let str = "";
6     for(let k = 1;k <= space; k++){
7       str += " ";
8     }
9     for(let j = 1; j <= i; j++){
10      str += j + " ";
11    }
12    console.log(str);
13    space -= 2;
14  }
15  space=2;
16  for(let i = row -1;i>=1;i--){
17    let str = "";
18    for(let k = 1;k <= space; k++){
19      str += " ";
20    }
21    for(let j = 1; j <= i; j++){
22      str += j + " ";
23    }
24    console.log(str);
25    space +=2;
26  }
27 }
28 print();

PS D:\Priyanka\MCT-4\HOMEWORK\GEEKSTER-JS\day-2-class-assignment> node .\pattern-2.js
Debugger attached.
        1
      1 2
    1 2 3
  1 2 3 4
1 2 3 4 5
  1 2 3 4
    1 2 3
      1 2
        1
Waiting for the debugger to disconnect...
PS D:\Priyanka\MCT-4\HOMEWORK\GEEKSTER-JS\day-2-class-assignment>
```

Q3.) Write a program in javascript to create a pattern like this

```
1
2 1
3 2 1
4 3 2 1
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1
```

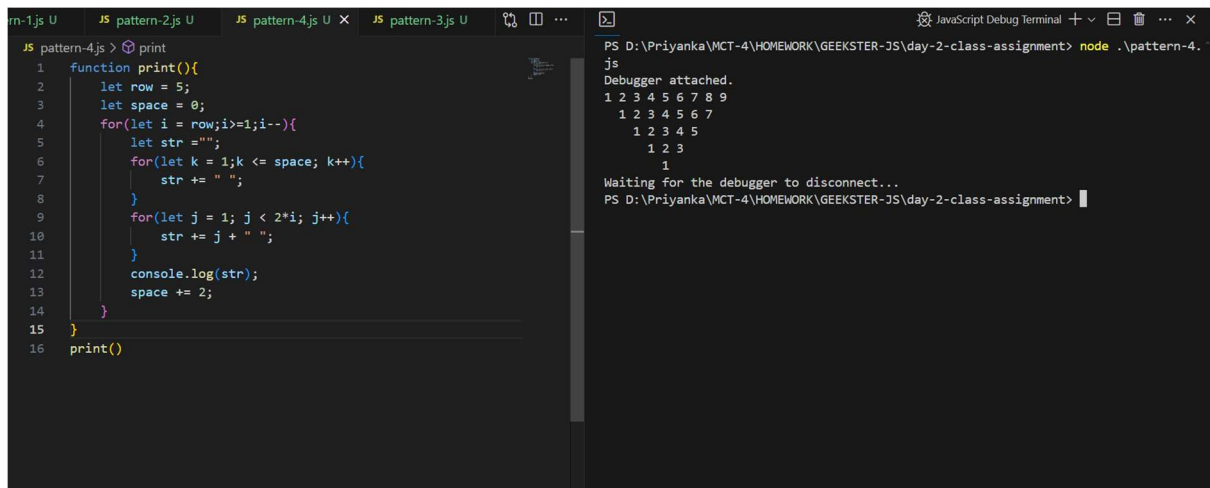


```
JS pattern-3.js > print
1 function print(){
2   let row = 5;
3
4   for(let i = 1; i <= row; i++){
5     let str = "";
6
7     for(let j = i; j >= 1; j--){
8       str += j + " ";
9     }
10    console.log(str);
11  }
12  for(let i = row - 1; i >= 1; i--){
13    let str = "";
14    for(let j = i; j >= 1; j--){
15      str += j + " ";
16    }
17    console.log(str);
18  }
19 }
20 print();
```

```
PS D:\Priyanka\MCT-4\HOMEWORK\GEEKSTER-JS\day-2-class-assignment> node .\pattern-3.js
Debugger attached.
1
2 1
3 2 1
4 3 2 1
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1
Waiting for the debugger to disconnect...
PS D:\Priyanka\MCT-4\HOMEWORK\GEEKSTER-JS\day-2-class-assignment>
```

Q4.) Write a program in javascript to create a pattern like this.

```
1 2 3 4 5 6 7 8 9
  1 2 3 4 5 6 7
    1 2 3 4 5
      1 2 3
        1
```



```
JS pattern-4.js > print
1 function print(){
2   let row = 5;
3   let space = 0;
4   for(let i = row; i >= 1; i--){
5     let str = "";
6     for(let k = 1; k <= space; k++){
7       str += " ";
8     }
9     for(let j = 1; j <= 2*i; j++){
10      str += j + " ";
11    }
12    console.log(str);
13    space += 2;
14  }
15 }
16 print()
```

```
PS D:\Priyanka\WCT-4\HOMEWORK\GEEKSTER-JS\day-2-class-assignment> node .\pattern-4.js
Debugger attached.
1 2 3 4 5 6 7 8 9
  1 2 3 4 5 6 7
    1 2 3 4 5
      1 2 3
        1
Waiting for the debugger to disconnect...
PS D:\Priyanka\WCT-4\HOMEWORK\GEEKSTER-JS\day-2-class-assignment>
```