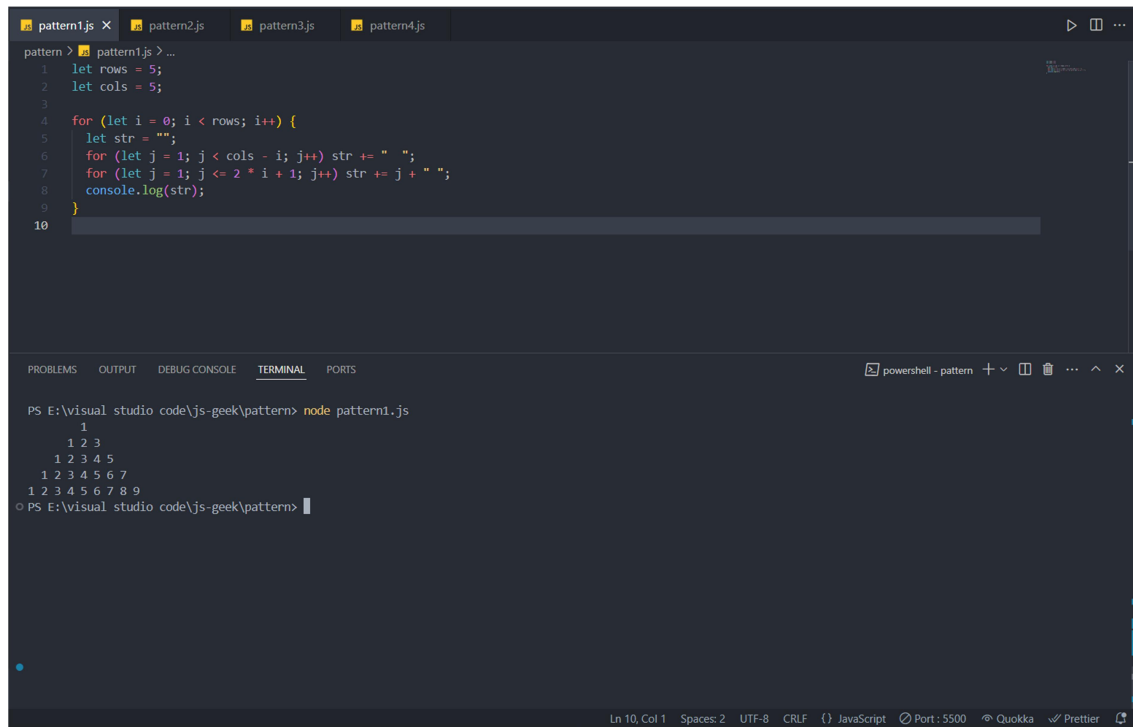


Ques 1:-



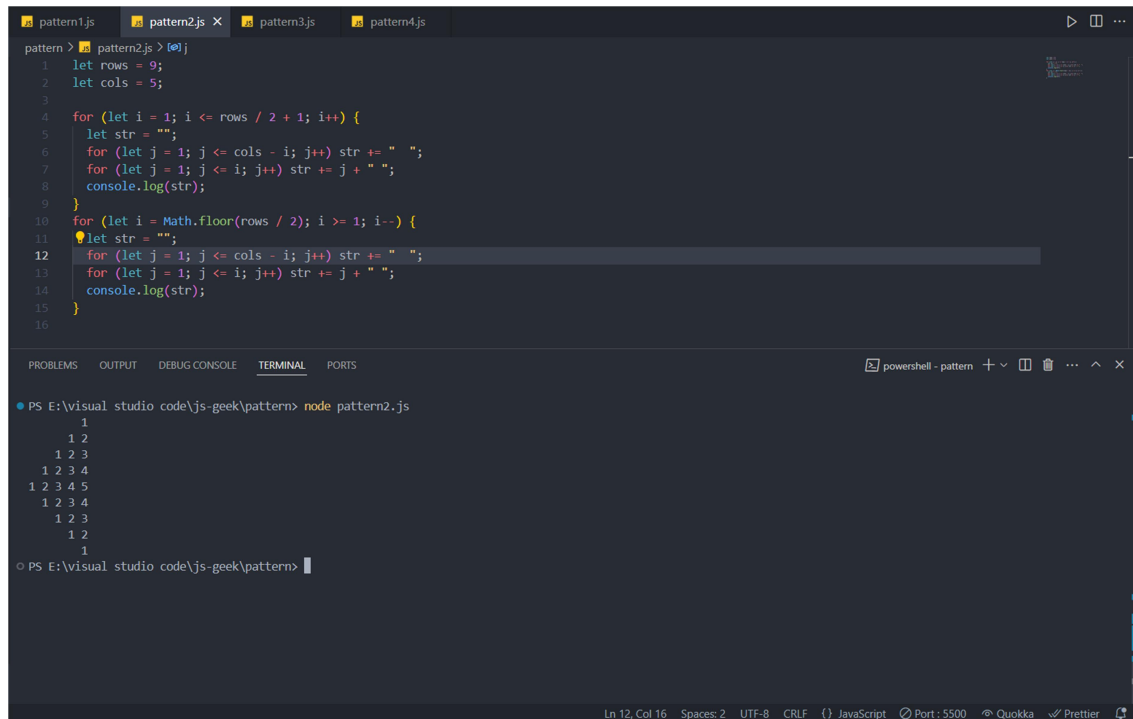
The screenshot shows a VS Code editor with a file named `pattern1.js` open. The code defines a function `pattern` that takes `rows` and `cols` as arguments. It uses nested loops to generate a pattern of numbers. The first loop iterates over rows from 0 to 4, and the second loop iterates over columns from 1 to $2 * i + 1$. The pattern is printed to the console using `console.log(str)`.

```
pattern > pattern1.js > ...
1 let rows = 5;
2 let cols = 5;
3
4 for (let i = 0; i < rows; i++) {
5   let str = "";
6   for (let j = 1; j < cols - i; j++) str += " ";
7   for (let j = 1; j <= 2 * i + 1; j++) str += j + " ";
8   console.log(str);
9 }
10
```

The terminal output shows the pattern for 5 rows and 5 columns:

```
PS E:\visual studio code\js-geek\pattern> node pattern1.js
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
PS E:\visual studio code\js-geek\pattern>
```

Ques 2:-



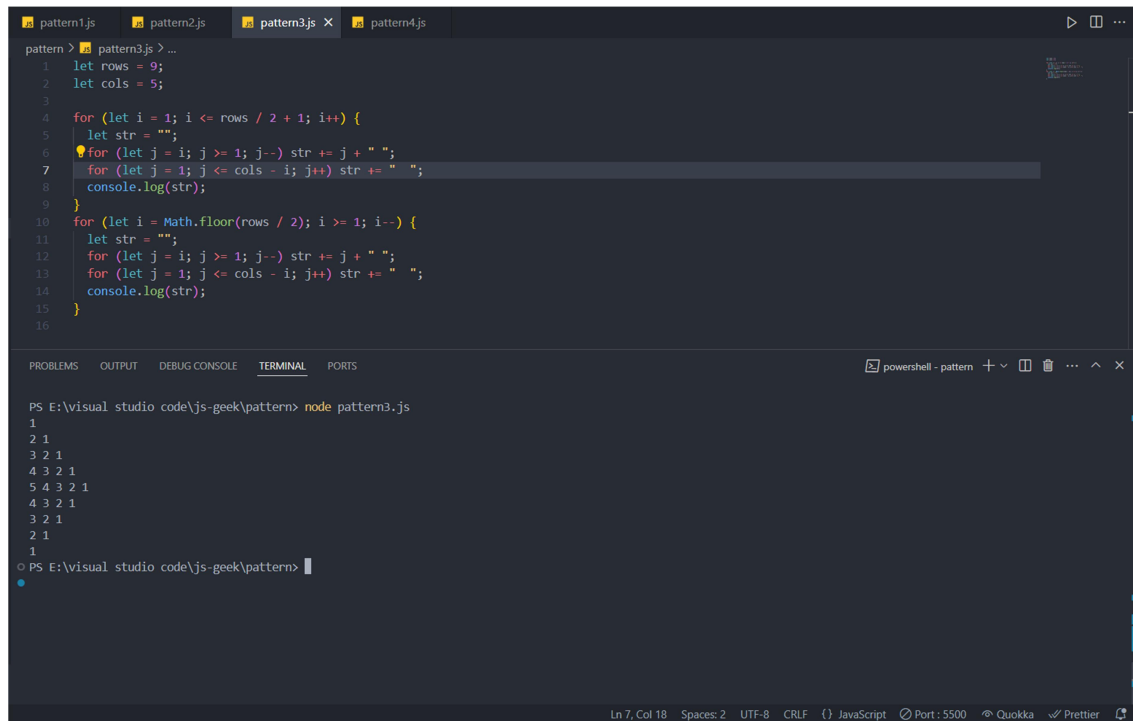
The screenshot shows a VS Code editor with a file named `pattern2.js` open. The code defines a function `pattern` that takes `rows` and `cols` as arguments. It uses nested loops to generate a pattern of numbers. The first loop iterates over rows from 1 to $\text{rows} / 2 + 1$, and the second loop iterates over columns from 1 to $\text{cols} - i$. The pattern is printed to the console using `console.log(str)`.

```
pattern > pattern2.js > ...
1 let rows = 9;
2 let cols = 5;
3
4 for (let i = 1; i <= rows / 2 + 1; i++) {
5   let str = "";
6   for (let j = 1; j <= cols - i; j++) str += " ";
7   for (let j = 1; j <= i; j++) str += j + " ";
8   console.log(str);
9 }
10 for (let i = Math.floor(rows / 2); i >= 1; i--) {
11   let str = "";
12   for (let j = 1; j <= cols - i; j++) str += " ";
13   for (let j = 1; j <= i; j++) str += j + " ";
14   console.log(str);
15 }
16
```

The terminal output shows the pattern for 9 rows and 5 columns:

```
PS E:\visual studio code\js-geek\pattern> node pattern2.js
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
PS E:\visual studio code\js-geek\pattern>
```

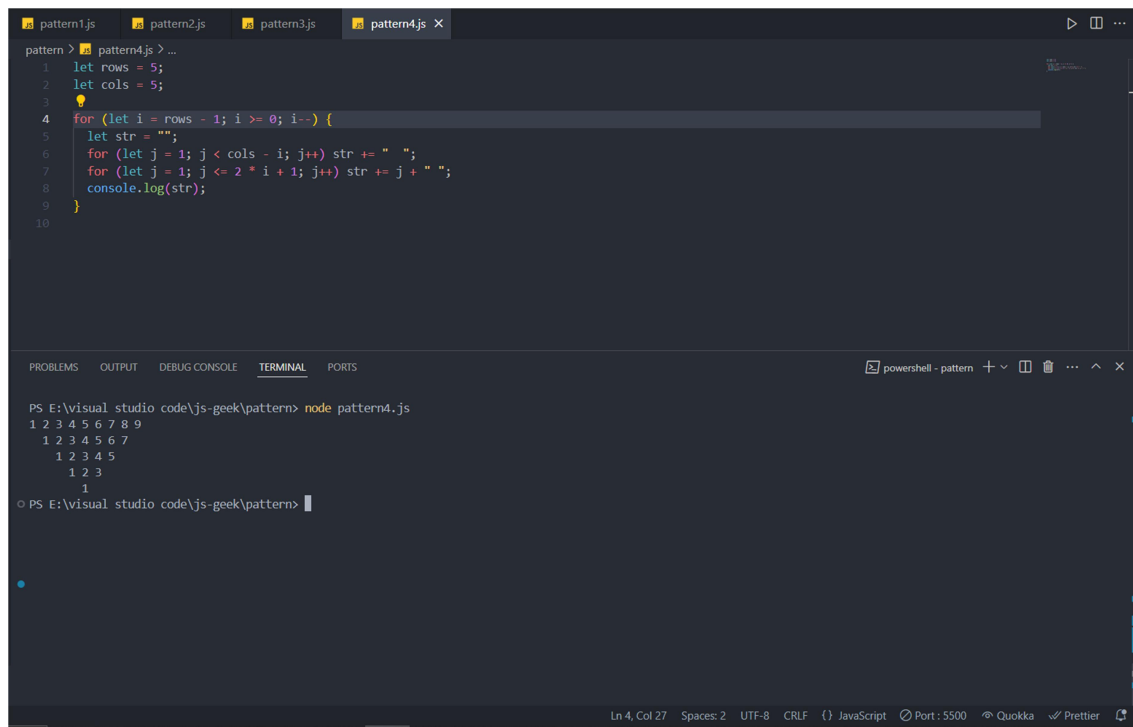
Ques 3:-



The screenshot shows a VS Code editor with a file named `pattern3.js` open. The code defines a function `pattern` that takes `rows` and `cols` as arguments. It uses nested loops to generate a pattern of numbers. The first loop iterates from `i = 1` to `rows / 2 + 1`, and the second loop iterates from `j = i` to `cols - i + 1`. The output in the terminal is as follows:

```
PS E:\visual studio code\js-geek\pattern> node pattern3.js
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
```

Ques 4:-



The screenshot shows a VS Code editor with a file named `pattern4.js` open. The code defines a function `pattern` that takes `rows` and `cols` as arguments. It uses nested loops to generate a pattern of numbers. The first loop iterates from `i = rows - 1` to `0`, and the second loop iterates from `j = 1` to `cols - i`. The output in the terminal is as follows:

```
PS E:\visual studio code\js-geek\pattern> node pattern4.js
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
```