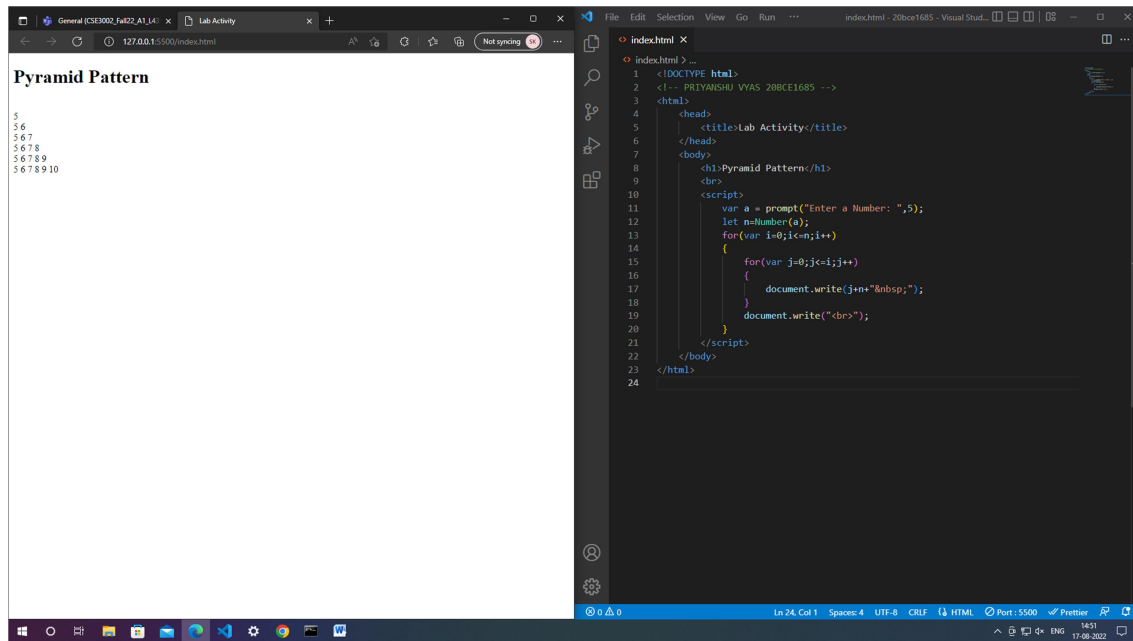1. Use JavaScript to build a pyramid by getting a value from the user. If input is n= 5, then expected output in n+1 rows will be

```
5
5 6
5 6 7
5 6 7 8
5 6 7 8 9
5 6 7 8 9 10
```

```html
<!DOCTYPE html>
<!-- PRIYANSHU VYAS 20BCE1685 -->
<html>
    <head>
        <title>Lab Activity</title>
    </head>
    <body>
        <h1>Pyramid Pattern</h1>
        <br>
        <script>
            var a = prompt("Enter a Number: ",5);
            let n=Number(a);
            for(var i=0;i<=n;i++)
            {
                for(var j=0;j<=i;j++)
                {
                    document.write(j+n+" ");
                }
                document.write("<br>");
            }
        </script>
    </body>
</html>
```

Browser window showing "Pyramid Pattern":
```
5
5 6
5 6 7
5 6 7 8
5 6 7 8 9
5 6 7 8 9 10
```

VS Code editor (index.html):
```html
<!DOCTYPE html>
<!-- PRIYANSHU VYAS 20BCE1685 -->
<html>
    <head>
        <title>Lab Activity</title>
    </head>
    <body>
        <h1>Pyramid Pattern</h1>
        <br>
        <script>
            var a = prompt("Enter a Number: ",5);
            let n=Number(a);
            for(var i=0;i<=n;i++)
            {
                for(var j=0;j<=i;j++)
                {
                    document.write(j+n+" ");
                }
                document.write("<br>");
            }
        </script>
    </body>
</html>
```

2. Define a form to collect monthly salary from user, then display tax/month to the user, based on their choice Old/New Tax regime.

Sr. No.	Particulars	Old Tax Regime	New tax Regime
1	Income tax slabs :	Rate	Rate
	Upto Rs.2,50,000	Nil	Nil
	Rs.2,50,001 to Rs.5,00,000	5%	5%
	Rs.5,00,000 to Rs.7,50,000	20%	10%
	Rs.7,50,001 to Rs.10,00,000	20%	15%
	Rs.10,00,001 to Rs.12,50,000	30%	20%
	Rs.12,50,001 to Rs.15,00,000	30%	25%
	Rs.15,00,001 and above	30%	30%

```html
<!DOCTYPE html>
<html>
<head>
    <title>Lab Activity 2</title>
</head>
<body>
    <form>
        <label>Monthly_salary: </label>
        <input id="monthly_salary" type="text"><br><br>
        <label>Tax_Regime: </label>
```

```html
        <select id="tax_regime">
            <option value="old">Old</option>
            <option value="new">New</option>
        </select><br><br>
        <input type="submit" onclick="f1()">
</form>
<script>
    function f1() {
        var S=Number(document.getElementById("monthly_salary").value);
        var T=document.getElementById("tax_regime").value;
        var output;
        if(S<=250000) {
            output=S;
        }
        else if(250001<=S && S<=500000) {
            if(T=="old") {
                output=S*(5/100);
            }
            else {
                output=S*(5/100);
            }
        }
        else if(500000<=S && S<=750000) {
            if(T=="old") {
                output=S*(20/100);
            }
            else {
                output=S*(10/100);
            }
        }
        else if(750001<=S && S<=1000000) {
            if(T=="old") {
                output=S*(20/100);
            }
            else {
                output=S*(15/100);
            }
        }
        else if(1000001<=S && S<=1250000) {
            if(T=="old") {
                output=S*(30/100);
            }
            else {
                output=S*(20/100);
            }
        }
        else if(1250001<=S && S<=1500000) {
            if(T=="old") {
```

```
                    output=S*(30/100);
                }
                else {
                    output=S*(25/100);
                }
            }
            else if(1500001<=S) {
                if(T=="old") {
                    output=S*(30/100);
                }
                else {
                    output=S*(30/100);
                }
            }
            document.write("Tax/Month = " + output);
        }
    </script>
</body>
</html>
```



```
1    <!DOCTYPE html>
2    <!-- PRIYANSHU VYAS 20BCE1685 -->
3    <html>
4    <head>
5        <title>Lab Activity 2</title>
6    </head>
7    <body>
8        <form>
9            <label>Monthly_salary: </label>
10           <input id="monthly_salary" type="text"><br><br>
11           <label>Tax_Regime: </label>
12           <select id="tax_regime">
13               <option value="old">Old</option>
14               <option value="new">New</option>
15           </select><br><br>
16           <input type="submit" onclick="f1()">
17       </form>
18       <script>
19           function f1() {
20               var S=Number(document.getElementById("monthly_salary").value);
21               var T=document.getElementById("tax_regime").value;
22               var output;
23               if(S<=250000) {
24                   output=S;
25               }
26               else if(250001<=S && S<=500000) {
27                   if(T=="old") {
28                       output=S*(5/100);
29                   }
30                   else {
31                       output=S*(5/100);
32                   }
33               }
34               else if(500000<=S && S<=750000) {
35                   if(T=="old") {
36                       output=S*(20/100);
37                   }
38                   else {
39                       output=S*(10/100);
40
```

Monthly_salary: [750001]

Tax_Regime: [New ▼]

[Submit]

Tax/Month = 112500.15