

Question-5

Print the following pattern.

Method-1 (Single Line)

```
for i in range(1, 6):  
    print (' ' * (5 - i), '*' * i)
```

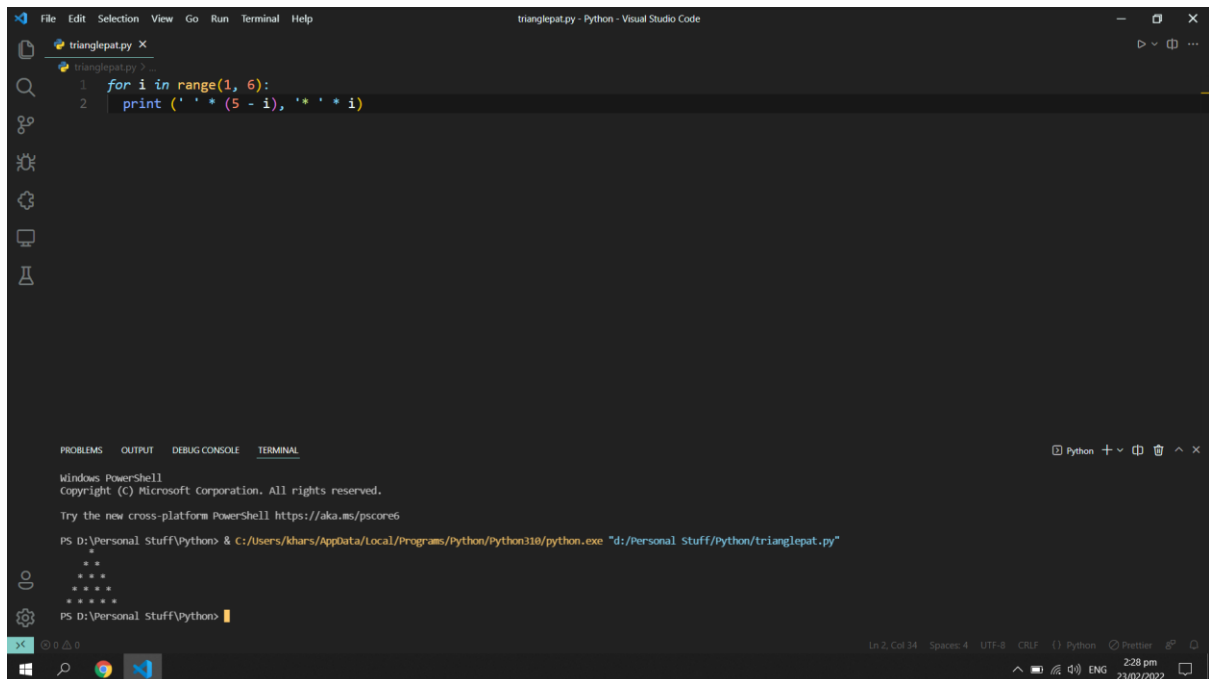
Method-2

```
def triangle(n):  
    k = 2*n - 2  
    for i in range(0, n):  
  
        for j in range(0, k):  
            print(end=" ")  
  
        k = k - 1  
  
        for j in range(0, i+1):  
            print("* ", end="")  
  
        print("\n")  
  
n = 5  
triangle(n)
```

Screenshots next page.

Screenshots:

Method-1



The screenshot shows the Visual Studio Code editor with a file named `trianglepat.py`. The code in the editor is as follows:

```
1 for i in range(1, 6):
2     print(' ' * (5 - i), '*' * i)
```

The terminal at the bottom shows the command executed to run the script:

```
PS D:\Personal Stuff\Python> & C:/Users/khars/AppData/Local/Programs/Python/Python310/python.exe "d:/Personal Stuff/python/trianglepat.py"
```

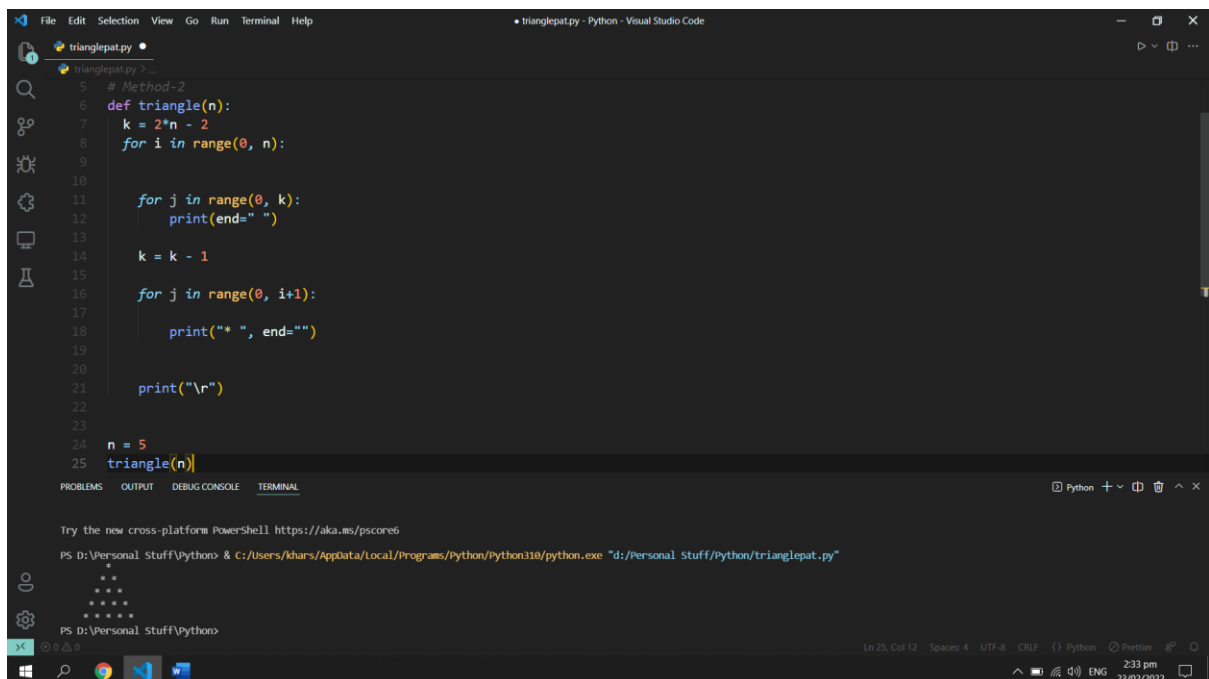
The output in the terminal is a triangle pattern of stars:

```

*
**
***
****
*****
```

The status bar at the bottom indicates the current line and column as `Ln 2, Col 34`.

Method-2



The screenshot shows the Visual Studio Code editor with a file named `trianglepat.py`. The code in the editor is as follows:

```
5 # Method-2
6 def triangle(n):
7     k = 2*n - 2
8     for i in range(0, n):
9
10
11         for j in range(0, k):
12             print(end=" ")
13
14         k = k - 1
15
16         for j in range(0, i+1):
17             print("* ", end="")
18
19
20         print("\n")
21
22
23
24 n = 5
25 triangle(n)
```

The terminal at the bottom shows the command executed to run the script:

```
PS D:\Personal Stuff\Python> & C:/Users/khars/AppData/Local/Programs/Python/Python310/python.exe "d:/Personal Stuff/python/trianglepat.py"
```

The output in the terminal is a triangle pattern of stars:

```

*
**
***
****
*****
```

The status bar at the bottom indicates the current line and column as `Ln 25, Col 12`.