

## ASSIGNMENT – WEEK1

Q. Create lower triangular, upper triangular and pyramid containing the "\*" character.

#print the lower triangle pattern

\*

\*\*

\*\*\*

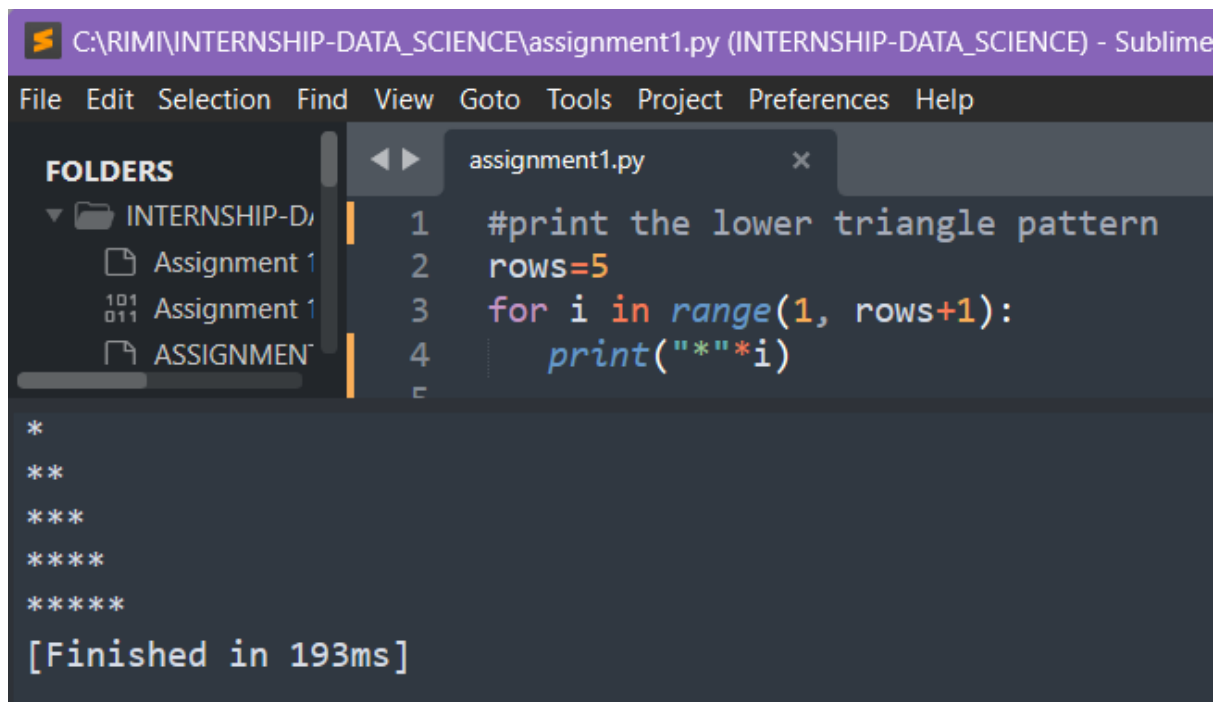
\*\*\*\*

\*\*\*\*\*

rows=5

for i in range(1, rows+1):

print("\*"\*i)



The screenshot shows a Sublime Text editor window with the title bar 'C:\RIMI\INTERNSHIP-DATA\_SCIENCE\assignment1.py (INTERNSHIP-DATA\_SCIENCE) - Sublime'. The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. The left sidebar shows a 'FOLDERS' panel with a tree view containing 'INTERNSHIP-D...', 'Assignment 1', 'Assignment 1', and 'ASSIGNMEN'. The main editor area shows a Python script with the following code:

```
1 #print the lower triangle pattern
2 rows=5
3 for i in range(1, rows+1):
4     print("*"*i)
```

Below the code, the output of the script is displayed as a lower triangular pattern of asterisks:

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

At the bottom of the output, it says '[Finished in 193ms]'.

```
#print upper triangular pattern
```

```
*****
```

```
****
```

```
***
```

```
**
```

```
*
```

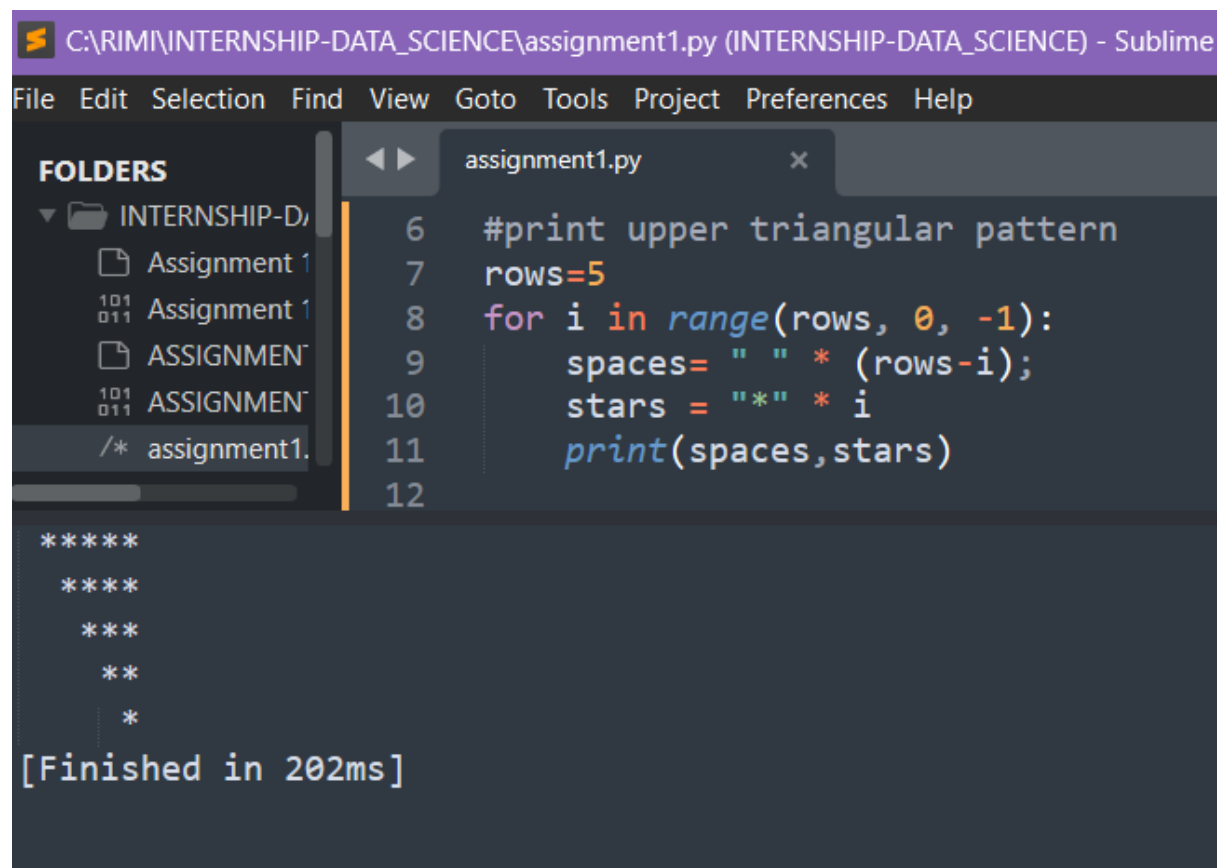
```
rows=5
```

```
for i in range(rows, 0, -1):
```

```
    spaces= " " * (rows-i);
```

```
    stars = "*" * i
```

```
    print(spaces,stars)
```



The screenshot shows a Sublime Text editor window titled "C:\RIMI\INTERNSHIP-DATA\_SCIENCE\assignment1.py (INTERNSHIP-DATA\_SCIENCE) - Sublime". The editor has a menu bar with "File", "Edit", "Selection", "Find", "View", "Goto", "Tools", "Project", "Preferences", and "Help". On the left, a "FOLDERS" sidebar shows a tree view with "INTERNSHIP-D" expanded, containing "Assignment 1", "Assignment 1", "ASSIGNMEN", "ASSIGNMEN", and "/\* assignment1.". The main editor area shows a Python script with line numbers 6 to 12. The script prints an upper triangular pattern of stars. Below the script, the output of the program is displayed: a pattern of stars followed by "[Finished in 202ms]".

```
6 #print upper triangular pattern
7 rows=5
8 for i in range(rows, 0, -1):
9     spaces= " " * (rows-i);
10    stars = "*" * i
11    print(spaces,stars)
12
```

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

[Finished in 202ms]

```
#print pyramid pattern
```

```
*
```

```
**
```

```
***
```

```
****
```

```
*****
```

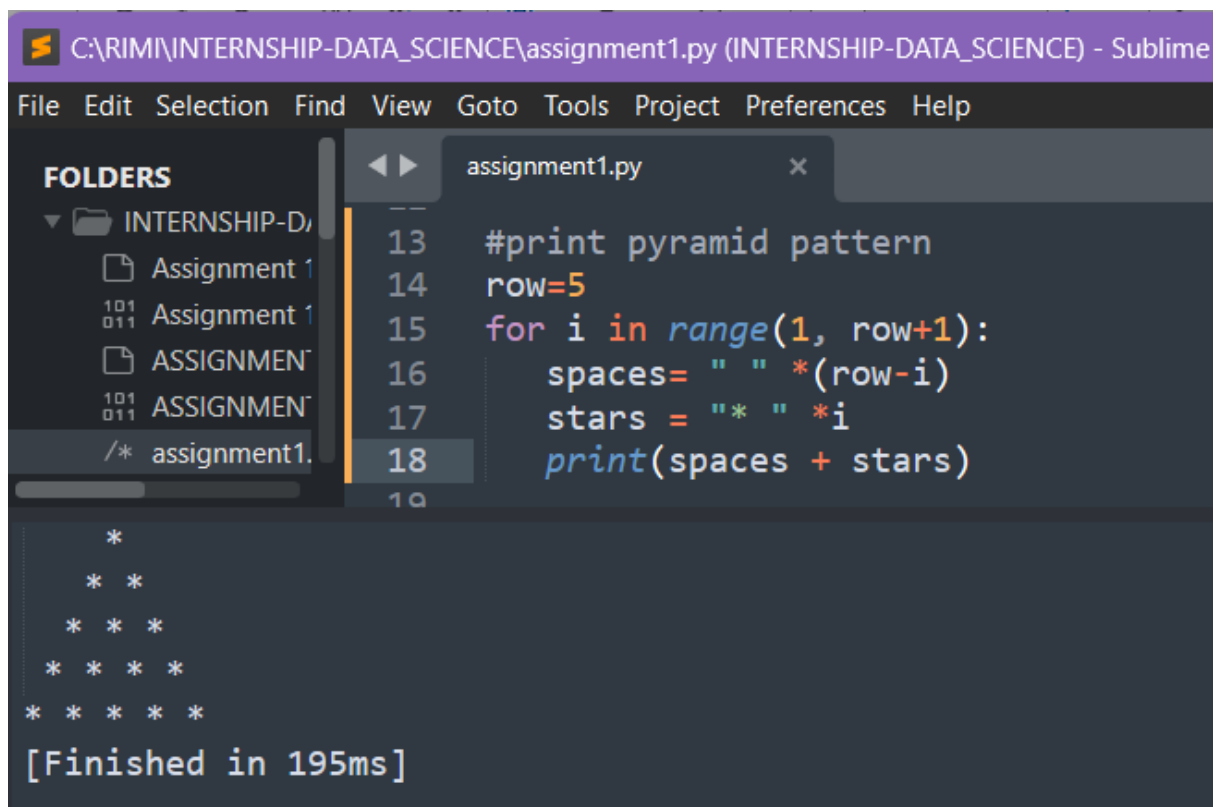
```
row=5
```

```
for i in range(1, row+1):
```

```
    spaces= " " *(row-i)
```

```
    stars = "* " *i
```

```
    print(spaces + stars)
```



```
C:\RIMI\INTERNSHIP-DATA_SCIENCE\assignment1.py (INTERNSHIP-DATA_SCIENCE) - Sublime
File Edit Selection Find View Goto Tools Project Preferences Help

FOLDERS
└─ INTERNSHIP-D
  └─ Assignment 1
  └─ Assignment 1
  └─ ASSIGNMEN
  └─ ASSIGNMEN
  └─ /* assignment1.

assignment1.py
13 #print pyramid pattern
14 row=5
15 for i in range(1, row+1):
16     spaces= " " *(row-i)
17     stars = "* " *i
18     print(spaces + stars)
19

*
* *
* * *
* * * *
* * * * *
[Finished in 195ms]
```