# Python Programming Recursive Functions Practice 1

Mostafa S. Ibrahim
Teaching, Training and Coaching since more than a decade!

Artificial Intelligence & Computer Vision Researcher PhD from Simon Fraser University - Canada Bachelor / Msc from Cairo University - Egypt Ex-(Software Engineer / ICPC World Finalist)



# Print a Triangle (v1)

```
def print_triangle(levels):
    if levels == 0:
        return

for i in range(0, levels):
        print("*", end='')
        print("")

print_triangle(levels - 1)

print_triangle(5)
```



\*\*\*\*

```
print_triangle(5)
Print 5 stars
print_triangle(4)
```

\*\*\*\*

```
print_triangle(4)
Print 4 stars
print_triangle(3)
```

```
print_triangle(5)
Print 5 stars
print_triangle(4)
```

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

```
print_triangle(3)
Print 3 stars
print_triangle(2)
```

```
print_triangle(4)
Print 4 stars
print_triangle(3)
```

```
print_triangle(5)
Print 5 stars
print_triangle(4)
```

```
print_triangle(2)
      Print 2 stars
      print_triangle(1)
print_triangle(3)
      Print 3 stars
      print_triangle(2)
print_triangle(4)
      Print 4 stars
      print_triangle(3)
print_triangle(5)
      Print 5 stars
      print_triangle(4)
```

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

```
print_triangle(2)
      Print 2 stars
      print_triangle(1)
print_triangle(3)
      Print 3 stars
      print_triangle(2)
print_triangle(4)
      Print 4 stars
      print_triangle(3)
print_triangle(5)
```

Print 5 stars

print\_triangle(4)

```
****

***

***

**
```

```
print_triangle(1)
Print 1 star
print_triangle(0)
```

```
print_triangle(2)
      Print 2 stars
      print_triangle(1)
print_triangle(3)
      Print 3 stars
      print_triangle(2)
print_triangle(4)
      Print 4 stars
      print_triangle(3)
print_triangle(5)
      Print 5 stars
```

print\_triangle(4)

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

```
print_triangle(0)
Return
```

```
print_triangle(1)
Print 1 star
print_triangle(0)
```

"Acquire knowledge and impart it to the people."

"Seek knowledge from the Cradle to the Grave."