#### **Problem 1**

\*

\*\*

\*\*\*

\*\*\*\*

Print the following pattern.

There are no spaces between

consecutive stars. There are no spaces at the end of each line. Note: Do not worry about the \n that you observe in the expected output. It can be ignored.

```
In [33]: for i in range(1,6):
    print(i*"*"+(5-i)*" ")

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

### Problem 2

1. \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*

Print the following pattern.

```
In [38]: for i in range(1,6):
    print(5*"*")

****

****

****

****

****

*****
```

### **Problem 3**

```
3. *****
****
***
**
```

Print the following pattern.

#### **Problem 4**

```
4. 1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

Print the following pattern.

#### **Problem 5**

```
5. *

**

***

****

***

***

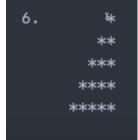
**

**
```

Print the following pattern.

```
In [56]: for i in range(1,6):
    print(i*"*")
```

# Problem 6



Print the following pattern.

### Problem 7

```
7. *****
****
**
**
```

Print the following pattern.

## **Problem 8**

Print the following pattern.

### **Problem 9**

```
9. ********
*****
****
***
```

Print the following pattern.

# **Problem 10**

Print the following pattern.

```
In [89]: for i in range(1, 6):
    print((5-i)*" "+"* "*i)

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

## **Problem 11**

```
11. * * * * *
* * * *
* *
*
```

Print the following pattern.

```
In [75]: for i in range(1, 6):
    print((i-1)*' '+(6-i)*"* "+(i-1)*' ')

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

## **Problem 12**

Print the following pattern.

# **Problem 13**

Print the following pattern.