

In-class assignment:

1. type in the following in the interactive window to see the result. Your goal is to understand what happens and why such result is produced.

```
>>> s = "Interstellar"
>>> s[6:10]

>>> s[5:]

>>> s[::-1]

>>> s

>>> s[0:5] + "com"

>>> L = [1,2,3,4,5,6,7,8,9,10]

>>> L[1::2]

>>> for item in L:
    if item % 2 == 1:
        print(item)
```

2. Write a program that asks for two words from the user, then produces: concatenated string with star in between the words (first word followed by * and then by the second word), reversed; also it should print the length of the «resulting» string.

example:

```
Enter a word: lamb
Enter another word: true
Result: uert*bmal
Length: 9
```

Use some of the code blocks:

```
w1 = input("Enter a word:")
w2 = input("Enter another word:")
```

```
w1 = int(input("Enter a word:"))
w2 = int(input("Enter another word:"))
```

```
w3 = w1[::-1]+'*'+w2[::-1]
```

```
w3 = w1+'*'+w2
```

```
w3 = w1+'*'+w2
w3 = w3[::-1]
```

```
print("Here is what we did for you:",w3)
print("Its length is",len(w3))
```

```
print("Here is what we did for you:",w3[::-1])
print("Its length is",len(w3))
```

3. Write the program that asks the user to input a sentence, and then displays a letter by letter of this sentence (each letter is on new line). **hint:** use *for loop*

For example: Hello Mary produces:

H
e
l
l
o

M
a
r
y