checking data types

Single line comment

Multiline String

```
In [33]: multiline_string = '''I am a teacher and enjoy teaching.
    I didn't find anything as rewarding as empowering people.
    That is why I created 30 days of python.'''
In [34]: print(multiline_string)
```

```
I am a teacher and enjoy teaching.
I didn't find anything as rewarding as empowering people.
That is why I created 30 days of python.
```

```
In [ ]:
```

Another way of doing the same thing

```
In [35]: multiline_string = """I am a teacher and enjoy teaching.
    I didn't find anything as rewarding as empowering people.
    That is why I created 30 days of python."""
    print(multiline_string)

I am a teacher and enjoy teaching.
    I didn't find anything as rewarding as empowering people.
    That is why I created 30 days of python.
In []:
```

String Concatenation

```
In [36]: first_name = 'Asabeneh'
    last_name = 'Yetayeh'
    space = ' '
    full_name = first_name + space + last_name
    print(full_name) # Asabeneh Yetayeh
    # Checking length of a string using len() builtin function
    print(len(first_name)) # 8
    print(len(last_name)) # 7
    print(len(first_name) > len(last_name)) # True
    print(len(full_name)) # 15

Asabeneh Yetayeh
    8
    7
    True
    16
In []:
```

Unpacking characters

```
In [37]: language = 'Python'
   a,b,c,d,e,f = language # unpacking sequence characters into variables
   print(a) # P
   print(b) # y
   print(c) # t
   print(d) # h
   print(e) # o
   print(f) # n
```

Accessing characters in strings by index

```
In [38]: language = 'Python'
    first_letter = language[0]
    print(first_letter) # P
    second_letter = language[1]
    print(second_letter) # y
    last_index = len(language) - 1
    last_letter = language[last_index]
    print(last_letter) # n

    P
    y
    n

In []:
```

If we want to start from right end we can use negative indexing. -1 is the last index

```
In [39]: language = 'Python'
last_letter = language[-1]
print(last_letter) # n
second_last = language[-2]
print(second_last) # o

In []:
```

Slicing

```
In [40]: language = 'Python'
    first_three = language[0:3] # starts at zero index and up to 3 but not include 3
    last_three = language[3:6]
    print(last_three) # hon
    # Another way
    last_three = language[-3:]
    print(last_three) # hon
```

```
last_three = language[3:]
  print(last_three) # hon

hon
  hon
  hon
  hon
```

Skipping character while splitting Python strings

```
In [41]: language = 'Python'
    pto = language[0:6:2]
    print(pto)

Pto
In []:
```