In [1]:
```
print (3+2)
```
5

In [2]:
```
print(3-1)
```
2

In [4]:
```
print (3*2)
```
6

In [5]:
```
print(3/2)
```
1.5

In [7]:
```
print (3**2)
```
9

In [8]:
```
print(3%2)
```
1

In [9]:
```
print (3//2)
```
1

Checking Data Types

In [11]:
```
print(type(10))
```
<class 'int'>

In [12]:
```
print (type(3.14))
```
<class 'float'>

In [13]:
```
print(type(1+3j))
```
<class 'complex'>

In [14]:
```
print(type('Munna'))
```
<class 'str'>

In [16]:
```
print(type([1,2,3]))
```
<class 'list'>

In [18]:
```
print(type({'name':'Munna'}))
```
<class 'dict'>

In [19]:
```
print(type({9.8,3.14,2.7}))
```
<class 'set'>

In [20]:
```
print(type((9.8,3.4,2.7)))
```
<class 'tuple'>

In [21]:
```
print(type(3 == 3))
```

```
<class 'bool'>
```

In [23]:
```
print(type(3>=3))
```

```
<class 'bool'>
```

Play with Strings #### Single Line String

In [24]:
```
letter = 'P'
```

In [25]:
```
print(letter)
```

```
P
```

In [26]:
```
print(len(letter))
```

```
1
```

In [27]:
```
greeting = ' Hello,world'
greeting
```

Out[27]:
```
 ' Hello,world'
```

In [28]:
```
print(greeting)
```

```
 Hello,world
```

In [29]:
```
print(len(greeting))
```

```
12
```

In [30]:
```
sentence = ' I hope your are enjoying 30 days of python challenge '
print(sentence)
```

```
 I hope your are enjoying 30 days of python challenge
```

Multi Line String

In [32]:
```
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.
```

string Concatenatio

In [34]:
```
first_name = 'Munna'
last_name = 'Kona'
space = ' '
full_name = first_name + space + last_name
print(full_name)
```

```
Munna Kona
```

In [35]:
```
print(len(full_name))
```

```
10
```

In [38]:
```
print(len(first_name))
```

```
5
```

In [39]:
```
print(len(last_name))
```

```
4
```

In [41]:
```
print(len(first_name) < len(last_name))
```

```
False
```

In [42]:
```
print(len(full_name))
```

```
10
```

UnPacking Characters

In [43]:
```
language = 'Python'
a,b,c,d,e,f = language
```

In [44]:
```
print(a)
```

```
P
```

In [45]:
```
print(b)
```

```
y
```

In [46]:
```
print(c)
```

```
t
```

Accessing Characters in Strings by Index

In [47]:
```
language = 'Python'
```

In [49]:
```
first_letter = language[0]
print(first_letter)
```

```
P
```

In [50]:
```
second_letter = language[1]
print(second_letter)
```

```
y
```

In [52]:
```
last_index = len(language)-1
print(last_index)
```

```
5
```

In [53]:
```
last_letter = language[last_index]
print(last_letter)
```

```
n
```

In [54]:
```
last_letter = language[-1]
print(last_letter)
```

```
n
```

In [55]:
```
second_last = language[-2]
print (second_last)
```

```
o
```

In [56]:
```
### Slicing ###
```

In [58]:
```
first_threee = language[0:3]
print(first_threee)
```

```
Pyt
```

In [59]:
```
last_three = language[3:6]
print(last_three)
```

```
hon
```

In [60]:
```
## Escape Sequence
```

In [62]:
```
print('I hope every one enjoying the python challenge.\nDo you ?')
```

```
I hope every one enjoying the python challenge.
Do you ?
```

In [63]:
```
print('Days\tTopics\tExercises')
```

```
Days    Topics  Exercises
```

In [64]:
```
print('Day 1\t3\t5')
```

```
Day 1   3       5
```

In [65]:
```
print('Day 2\t3\t5')
```

```
Day 2   3       5
```

In [66]:
```
print('This is a black slash symbol (\\)')
```

```
This is a black slash symbol (\)
```

In [67]:
```
print('In every programming language it starts with \"Hello, World!\"')
```

```
In every programming language it starts with "Hello, World!"
```

In [68]:
```
### String Methods ##
```

In [71]:
```
challenge = 'thirty days of python'
print(challenge.capitalize())
```

```
Thirty days of python
```

In [72]:
```
print(challenge.count('y'))
```

```
3
```

In [74]:
```
print(challenge.count('th'))
```

```
2
```

In [75]:
```
print(challenge.count('a',7,14))
```

```
1
```

In [76]:
```
# string ends with()
```

In [77]:
```
print(challenge.endswith('on'))
```

```
True
```

In [79]:
```
print(challenge.endswith('per'))
```

```
False
```

In [81]:
```
print(challenge.find('th'))
```

```
0
```

In [ ]:

In [ ]:

In [ ]:

In [ ]: