In [1]:
```
y = 10
x = 14
z = y + x
```

In [2]:
```
z
```

Out[2]:
```
24
```

In [3]:
```
summation = 'Hello +...+ World'
```

In [4]:
```
summation
```

Out[4]:
```
'Hello +...+ World'
```

In [5]:
```
my_list = [1,2,3,4,5,6,]
my_list2 = [23.4,56,6,7,8,9]
my_list3 = [my_list,my_list2]
```

In [6]:
```
my_list3
```

Out[6]:
```
[[1, 2, 3, 4, 5, 6], [23.4, 56, 6, 7, 8, 9]]
```

In [7]:
```
dict_ = {'key':12,'key1':43,'key3':45}
```

In [8]:
```
dict_
```

Out[8]:
```
{'key': 12, 'key1': 43, 'key3': 45}
```

In [9]:
```
location = 'masjid'
if location == 'masjid':
    print('sharfoo is in the mosque')
    print('meet me in the mosque')
elif location == 'resturant':
    print('sharfoo is eating somthing in the  resturant')
    print('everybody can meet sharfoo in the resturant')
elif location == 'bank':
    print('sharfoo is in the bank')
    print('get some money from the ATM')
elif location == 'park':
    print('sharfoo is relaxing in the park')
    print('please come in the park')
else:
    print('please don,t disturb me ')
    print('I can,t meet anyone')
```

```
sharfoo is in the mosque
meet me in the mosque
```

In [14]:
```
print('Alnafi is a {1} {0} .format(good institute)')
```

```
Alnafi is a {1} {0} .format(good institute)
```

In [13]:
```
print(' Alnafi is a {1} {0} .format(good institute)')
```

```
 Alnafi is a {1} {0} .format(good institute)
```

In [15]:
```
class Things:
    pass
class Inanimate(Things):
    pass
class Animate(Things):
    pass
class Sidewalks(Inanimate):
    pass
class Animals(Animate):
    pass
class Mammals(Animals):
    pass
class Giraffes(Mammals):
    pass
```

In [19]:
```
def this_is_a_normal_function():
    print('I am normal function')


class this_is_my_silly_class:
    def this_is_a_class_function():
        print('I am class function')
    def this_is_also_a_class_function():
        print('I am also a class function.see?')
```

In [21]:
```
for x in range(0,5):
    print('salam')
```

```
salam
salam
salam
salam
salam
```

In [22]:
```
print(list(range(10,20)))
```

```
[10, 11, 12, 13, 14, 15, 16, 17, 18, 19]
```

In [28]:
```
for X in range(0,5):
    print('salam %s'%X)
```

```
salam 0
salam 1
salam 2
salam 3
salam 4
```

In [29]:
```
wizard_list = ['spider legs','toe of frog','snail tongue','bat wing','slug butter

for i in wizard_list:
    print(i)
```

```
spider legs
toe of frog
snail tongue
bat wing
slug butter
bear burp
```

In [32]:
```
hugehairypants = ['huge','hairy','pants']
for i in hugehairypants:
    print(i)
    for j in hugehairypants:
        print(i)
```

```
huge
huge
huge
huge
hairy
hairy
hairy
hairy
pants
pants
pants
pants
```

In [33]:
```
x = 45
y = 80
while x < 50 and y < 100:
    x = x + 1
    y = y + 1
    print(x,y)
```

```
46 81
47 82
48 83
49 84
50 85
```

In [35]:
```
(5 + 30)*20
```

Out[35]: 700

In [37]:
```
((5 + 30)*20)//10
```

Out[37]: 70

In [38]:
```
Ali_coins = 20
fahad_coins = 10
abdullah_coins = 10

Ali_coins+fahad_coins+abdullah_coins
```

Out[38]: 40

In [39]:
```
abubakr = 'first khalifa'
print(abubakr)
```

```
first khalifa
```

In [41]:
```
single_quote_str = 'he said,"Aren\'t can\'t shouldn\'t wouldn\'t"'

print (single_quote_str)
```

```
he said,"Aren't can't shouldn't wouldn't"
```

In [44]:
```
single_quote_str = 'he said,"Aren\'t can\'t shouldn\'t wouldn\'t"'

print (single_quote_str)

#double quote str

single_quote_str = "he said,\"Aren't can't shouldn't wouldn't\""

print (single_quote_str)
```

```
he said,"Aren't can't shouldn't wouldn't"
he said,"Aren't can't shouldn't wouldn't"
```

In [51]:
```
#Embedding value in strings

myscore = 1000
message = 'I scored %s points'
print(message % myscore)
```

```
I scored 1000 points
```

In [52]:
```
nums = 'what did the number %s say to the number %s? Nice belt!!'
```

In [53]:
```
    #Embedding value in strings continued

nums = 'what did the number %s say to the number %s? Nice belt!!'
print(nums % (0, 8))
```

```
what did the number 0 say to the number 8? Nice belt!!
```

In [54]:
```
print(10 * 'a')
```

```
aaaaaaaaaa
```

In [55]:
```
spaces = ' ' * 25
print('%s 12 DHA Phase 5' % spaces)
print('%s Clifton' % spaces)
print('%s West Snoring' % spaces)
print()
print()
print('Dear Sir')
print()
print('I wish to report that tiles are missing from the')
print('outside toilet roof.')
print('I think it was bad wind the other night that blew them away.')
print()
print('Regards')
print('Sharfoo')
```

```
                         12 DHA Phase 5
                         Clifton
                         West Snoring


Dear Sir

I wish to report that tiles are missing from the
outside toilet roof.
I think it was bad wind the other night that blew them away.

Regards
Sharfoo
```

In [57]:
```
print(10 * 'Karachi')
```

```
KarachiKarachiKarachiKarachiKarachiKarachiKarachiKarachiKarachiKarachi
```

In [60]:
```
age = '10'

converted_age = int(age)
if converted_age == 10:
    print("What's the best way to speak to a monster?")
    print("From as far away as possible!")
```

```
What's the best way to speak to a monster?
From as far away as possible!
```

In [61]:
```
age
```

Out[61]:
```
'10'
```

In [67]:
```
age = '12'
converted_age = int(age)
if converted_age == 10:
    print("What's the best way to speak to a monster?")
    print("From as far away as possible!")
else:
    print('He is nice man')
```

```
He is nice man
```

In [3]:
```
y = "1,2,3,4,5,6,7,8,8,9,9"
x = "Alnafi is a good institute"
z = y+x
```

In [4]:
```
z
```

Out[4]:
```
'1,2,3,4,5,6,7,8,8,9,9Alnafi is a good institute'
```

In [7]:
```
sumation = "Hello"+"..""world"
```

In [8]:
```
sumation
```

Out[8]:
```
'Hello...world'
```

In [1]:
```
v = [1,2,3,43,45,6,4, "Abubaker", "Umer", "Usman", "Ali "]
```

In [2]:
```
v
```

Out[2]:
```
[1, 2, 3, 43, 45, 6, 4, 'Abubaker', 'Umer', 'Usman', 'Ali ']
```

In [3]:
```
v[0:4]
```

Out[3]:
```
[1, 2, 3, 43]
```

In [4]:
```
v[:-5]
```

Out[4]:
```
[1, 2, 3, 43, 45, 6]
```

In [5]:
```
v[-5:]
```

Out[5]:
```
[4, 'Abubaker', 'Umer', 'Usman', 'Ali ']
```

In [6]:
```
v[-2:-4]
```

Out[6]:
```
[]
```

In [7]:
```
v[-3:5]
```

Out[7]:
```
[]
```

In [8]:
```
v[0:-4]
```

Out[8]:
```
[1, 2, 3, 43, 45, 6, 4]
```

In [9]:
```
v[2:3:-4]
```

Out[9]:
```
[]
```

In [10]:
```
v[-0:-3]
```

Out[10]:
```
[1, 2, 3, 43, 45, 6, 4, 'Abubaker']
```

In [12]:
```
v[-3:2]
```

Out[12]:
```
[]
```

In [14]:
```
a = ["alnfi is the best institute",2,34,242]
```

In [15]:
```
a
```

Out[15]:
```
['alnfi is the best institute', 2, 34, 242]
```

In [16]:
```
aa = [a + v]
```

In [17]:
```
aa
```

Out[17]:
```
[['alnfi is the best institute',
  2,
  34,
  242,
  1,
  2,
  3,
  43,
  45,
  6,
  4,
  'Abubaker',
  'Umer',
  'Usman',
  'Ali ']]
```

In [28]:
```

```

```
  File "<ipython-input-28-9f7ccb0db0a0>", line 2
    print(v)
    ^
IndentationError: unexpected indent
```

In [ ]:
```

```

In [ ]:
```

```

In [24]:
```
a.extend(v)
print(a)
```

```
['alnfi is the best institute', 2, 34, 242, 1, 2, 3, 43, 45, 6, 4, 'Abubaker',
'Umer', 'Usman', 'Ali ', 1, 2, 3, 43, 45, 6, 4, 'Abubaker', 'Umer', 'Usman', 'A
li ']
```

In [ ]:
```

```

In [ ]:
```

```

In [ ]:
```

```

In [ ]:
```

```

In [ ]:
```

```

In [ ]:

In [ ]:

In [ ]: