break,

continue

pass

while True   ¶

DocString in python print (square.**doc**)

main funtion

In [2]:

```python
my_list = [1,2,3,4,5,6,7]
for elements in my_list:
    print(elements)
    if elements ==4:
        break
```

1
2
3
4

In [9]:

```python
a =2
a -=2
print(a)
```

0

In [7]:

```python
i = 0
while True:
    print(my_list[i])
    if my_list[i] == 4:
        break
    i +=1
```

1
2
3
4

In [18]:

```python
my_dict = {}
my_dict['caleb'] = 4
my_dict['joseph'] = 1
print(my_dict)
```

{'caleb': 4, 'joseph': 1}

In [19]:

```python
my_dict.keys(), my_dict.values()
```

Out[19]:

(dict_keys(['caleb', 'joseph']), dict_values([4, 1]))

In [24]:

```python
# len() funtion
len(new_dict)
```

Out[24]:

3

In [2]:

```python
new_dict = {}
while True:
    name = input("enter your name: ")
    score = int(input("enter your score: "))
    new_dict[name] = score
    if len(new_dict) == 5:
        break
```

enter your name: caleb
enter your score: 32
enter your name: joe
enter your score: 45
enter your name: emma
enter your score: 43
enter your name: jane
enter your score: 23
enter your name: chu
enter your score: 4

In [26]:

```python
new_dict
```

Out[26]:

{'caleb': 12, 'joe': 2, 'jane': 23, 'marry': 45, 'john': 45}

continue

In [29]:

```python
for i in range(10):
    if i ==7:
        continue
    print(i)
```

```
0
1
2
3
4
5
6
8
9
```

In [19]:

```python
if new_dict['caleb'] == 32:
    print('hi')
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
Cell In[19], line 1
----> 1 if new_dict['caleb'] == 32:
      2     print('hi')

KeyError: 'caleb'
```

In [30]:

```python
new_dict = {"caleb":12}
if new_dict['caleb'] > 1:
    print("hi")
```

```
hi
```

In [8]:

```python
new_dict = {}
while True:
    country = input("enter your name: ")
    score = int(input("enter your score: "))
    if country == "NN" and score <20:
        continue
    else:
        new_dict[country] = score
    if len(new_dict) == 5:
        break
```

```
enter your name: NH
enter your score: 23
enter your name: NN
enter your score: 12
enter your name: RT
enter your score: 45
enter your name: FT
enter your score: 67
enter your name: 67
enter your score: 78
enter your name: FG
enter your score: 45
```

In [9]:

```python
new_dict
```

Out[9]:

```
{'NH': 23, 'RT': 45, 'FT': 67, '67': 78, 'FG': 45}
```

a program for MOVIE TICKET

In [2]:

```python
count = 0
while True:
    choice = input("Hello welcome to the programme\nEnter 'Yes' to continue: (
    if choice == "no":
        break
    elif choice.lower() == 'yes':
        age = int(input("Enter Your Age: "))

        # if age <3, ticket is free
        #if age is btw 3 & 12, ticket is $10
        # if the age is above 12, ticket is $15

        if age < 3:
            print("your ticket is free")
        elif (age >3) & (age <12):
            print("your ticket is $10")
        elif age >12:
            print("your ticket is $15")
            count +=1
        if count == 3:
            break
```

```
Hello welcome to the programme
Enter 'Yes' to continue: Or Enter 'No' to Quit :yes
Enter Your Age: 18
your ticket is $15
Hello welcome to the programme
Enter 'Yes' to continue: Or Enter 'No' to Quit :yes
Enter Your Age: 29
your ticket is $15
Hello welcome to the programme
Enter 'Yes' to continue: Or Enter 'No' to Quit :yes
Enter Your Age: 40
your ticket is $15
```

In [26]:

```python
x = 0
for i in range(10):
    print("iterations :",i)
    x +=1
    if x ==2:
        continue
    print("the new x: ", x)
    if x ==5:
        break
```

```
iterations : 0
the new x:  1
iterations : 1
iterations : 2
the new x:  3
iterations : 3
the new x:  4
iterations : 4
the new x:  5
```

In [18]:

```python
1  print("the new x values is: ", x)
```

the new x values is: 10

In [43]:

```python
1  def add(x, y):
2      """this programme takes inn two numbers
3      and compute/return the sum
4      """
5      return x+y
```

In [44]:

```python
1  add(2,3)
```

Out[44]:

5

In [47]:

```python
1  print(add.__doc__)
```

this programme takes inn two numbers
    and compute/return the sum

In [8]:

```python
1  fav_fruits[-1]
```

Out[8]:

'pea'

In [1]:

```python
#this is for fruits
fav_fruit = ['orange', 'pineapple', 'burberry', 'mango','pea']
fruit = input("what fruit or gadget do you like best: ")

#this is for gadgets
fav_gadgets  = ['phone', 'mifi', 'router', 'pc', '']
gadget = input("Enter the gadget you like best: ")

#conditions
if fav_fruit[0] == fruit:
    print(f"you like {fruit}")
elif fav_fruit[1] == fruit:
    print(f"you like {fruit}")
elif fav_fruit[2] == fruit:
    print(f"you like {fruit}")
elif fav_fruit[3] == fruit:
    print(f"you like {fruit}")
elif fav_fruit[4] == fruit:
    print(f"you like {fruit}")
else:
    print("thanks for using our program")
```

```
what fruit  do you like best: pineapple
you like pineapple
```

In [5]:

```python
fav_fruits = ['orange', 'pineapple', 'burberry', 'mango','pea']
fruit = input("what fruit do you like best: ")

for i in fav_fruits:
    if i == fruit:
        print(f"you like {fruit}")
```

```
what fruit do you like best: pea
you like pea
```

In [2]:

```python
country_dict = {
    'NN':[23,45,67],
    'UA':[12,23,1],
    'QW':[29,9,12],
    'TR':[23,54,13],
    'UE':[56,23,19]
}
country_dict
```

Out[2]:

```
{'NN': [23, 45, 67],
 'UA': [12, 23, 1],
 'QW': [29, 9, 12],
 'TR': [23, 54, 13],
 'UE': [56, 23, 19]}
```

In [7]:

```python
record = {"caleb": 23,
          "blessing": 27,
          "joe": 56}
val = int(input("enter your score: "))
if val == record['joe']:
    print("yes you got it correct.")
```

enter your score: 56
yes you got it correct.

In [10]:

```python
record = {"caleb": 23,
          "blessing": 27,
          "joe": 56}

name = input("enter your score: ")
score = int(input("enter your score: "))

if score == record[name]:
    print("the name is on our record.")
```

enter your score: joe
enter your score: 56
the name is on our record.

In [ ]:

```python

```

In [31]:

```python
country_dict.values()
```

Out[31]:

dict_values([[23, 45, 67], [12, 23, 1], [29, 9, 12], [23, 54, 13], [56, 23, 19]])

In [ ]:

```python

```

In [22]:

```python
country_dict.keys()
```

Out[22]:

dict_keys(['NN', 'UA', 'QW', 'TR', 'UE'])

In [23]:

```
1  country_dict.values()
```

Out[23]:

```
dict_values([[23, 45, 67], [12, 23, 1], [29, 9, 12], [23, 54, 13],
[56, 23, 19]])
```

In [27]:

```
1  import pandas as pd
2  country = pd.DataFrame(country_dict)
```

In [28]:

```
1  country.head()
```

Out[28]:

	NN	UA	QW	TR	UE
0	23	12	29	23	56
1	45	23	9	54	23
2	67	1	12	13	19

In [26]:

```
1  class Person:
2      def __init__(self, name, age):
3          """this is a sample programm to illustrate class"""
4          self.name = name
5          self.age = age
6
7      def nme(self):
8          print("Hello my name is " + self.name)
9
```

In [21]:

```
1  instance_OTC = Person("John", 36)
```

In [23]:

```
1  instance_OTC.age
```

Out[23]:

```
36
```

In [16]:

```python
class class_name:
    def __init__(self, name, age, hieght):
        self.name = name
        self.age = age
        self.hieght = hieght
```

In [18]:

```python
obj = class_name('caleb', 12, 6)
```

In [19]:

```python
obj.name
```

Out[19]:

```
'caleb'
```

Try it yourself

In [1]:

```python
cars = {'honda': "honda acord v4 2009", 'GLK': "glk benz whatever", 'lexus':'
```

In [3]:

```python
cars.keys()
```

Out[3]:

```
dict_keys(['honda', 'GLK', 'lexus'])
```

In [4]:

```python
cars.values()
```

Out[4]:

```
dict_values(['checking', 'glk benz whatever', 'kls'])
```

In [6]:

```python
name = 'caleb'
print('welcome mr', name)
```

```
welcome mr. caleb
```

In [9]:

```python
print(f"welcome: {name}")
```

```
welcome: caleb
```

In [20]:

```python
piz = []
while True:
    pizaa = input('enter your choice: ')
    if pizaa == "quit":
        break
    else:
        piz.append(pizaa)
print(piz)
```

```
enter your choice: red
enter your choice: blue
enter your choice: green
enter your choice: yellow
enter your choice: quit
['red', 'blue', 'green', 'yellow']
```

In [19]:

```python
piz
```

Out[19]:

```
['cada', 'dadad', 'dadawr', 'rarre']
```

In [27]:

```python
name = 'caleb'
score = 4
hight = 'frg'
print('hello {},{}, {}'.format(name, score, hight))
```

```
hello caleb,4, frg
```

In [35]:

```python
def name():
#     print( '2')
    return 2
```

In [37]:

```python
name2 = input('enter your name: ')
if name2 == 'yes':
    print(name()*4)
```

enter your name: yes
2

```
------------------------------------------------------------------------
-------
TypeError                                 Traceback (most recent cal
l last)
/tmp/ipykernel_8628/3185725191.py in <module>
      1 name2 = input('enter your name: ')
      2 if name2 == 'yes':
----> 3     print(name()*4)

TypeError: unsupported operand type(s) for *: 'NoneType' and 'int'
```

In [ ]:

```python

```