In [1]:
```
marks = {'Andy': 88, 'Amy':66, 'James': 90, 'Jules':55, 'Arthur':77}

def function_1(name):
    try:
        return marks[name]
    except:
        print(name,"not found")

print(function_1("Andy"))

print(function_1("Amy"))

print(function_1("James"))

print(function_1("Jules"))

print(function_1("Arthur"))

function_1 ("Oscar")
```

```
88
66
90
55
77
Oscar not found
```

In [2]:
```
marks = {'Andy': 88, 'Amy':66, 'James': 90, 'Jules':55, 'Arthur':77}
def function_2(grades):
    return sum(marks.values())/len(marks)
function_2(marks)
```

Out[2]:
```
75.2
```

In [3]:
```
def sumfuction (num):
    n = 1
    sum = 0
    while n < num:
        print(n, n**2)
        n= n + 1
    else:
        print("grater than", num)

sumfuction(8)
```

```
1 1
2 4
3 9
4 16
5 25
6 36
7 49
grater than 8
```

In [4]:
```
def sumfuction (num):
    n = 1
    sum = 0
    while n <= num:
        sum = sum + n
        n= n + 1
    print(sum)
sumfuction(8)
```

```
36
```

In [5]:
```
def sumfuction1 (num):
    n = 1
    sum = 0
    while n <= num:
        sum = sum + n
        print(sum)
        n= n + 1

sumfuction1(8)
```

```
1
3
6
10
15
21
28
36
```

In [15]:
```
import statistics as stat
nums= range(100)
def function4(list5):
    print(max(list5))
    print(min(list5))
    print(stat.stdev(nums))
function4(nums)
```

```
99
0
29.011491975882016
```

In [19]:
```
def function_minimal(value1,value2,value3,value4):
    if value1<value2<value3<value4:
        print(value1)
function_minimal(1,2,3,4)
```

```
1
```

In [23]:
```
def function_6(string1, string2, string3):
    print(string1+ "" + string2+ ""+string3)
function_6 ("Ifeel", "really", "good")
```

```
Ifeelreallygood
```

In [ ]:
```

```