In [3]:

```
1
   #1
 2
 3
4
   def func(s):
5
        k=""
6
        for i in range(len(s)):
7
            k + = s[i] * 2
8
        print(k)
9
10 func("String")
11 func("Hello World!")
   func("1234!_ ")
```

SSttrriinngg HHeelllloo WWoorrlldd!! 11223344!!__

In [10]:

```
1
    #2
 2
 3
    def reverse(k):
 4
        if (k==True or k==False) and type(k)!=int:
 5
            if k:
 6
 7
                print(False)
            elif ~k:
 8
 9
                print(True)
10
11
12
        else:
            print("boolean expected")
13
14
15
   reverse(True)
16
    reverse(False)
17
18
   reverse(0)
    reverse(None)
19
20
```

False True boolean expected boolean expected

```
In [14]:
```

```
1 # 3
2
3
4 def func(n):
    return int(2**n *0.5)
6
7
8 print(func(1), "mm")
9 print(func(4), "mm")
10 print(func(21), "mm")
```

1 mm 8 mm 1048576 mm

In [16]:

```
# 4
 1
 2
 3
   def index_of_caps(s):
 4
        1=[]
 5
        for i in range(len(s)):
            if s[i].isupper():
 6
 7
                1.append(i)
 8
        print(1)
 9
   index_of_caps("eDaBiT")
10
11
12
   index_of_caps("eQuINoX")
   index_of_caps("determine")
14 index_of_caps("STRIKE")
   index_of_caps("sUn")
```

```
[1, 3, 5]
[1, 3, 4, 6]
[]
[0, 1, 2, 3, 4, 5]
[1]
```

In [17]:

```
[2, 4, 6, 8]
[2, 4]
[2]
```