

## # Assignment 6

```
list=['Hi Ankit','Hi Ayush','Hi Ratan','Hi Nayan','Hi Gaurav']
def show_messages(list):
    for message in list:
        print(f"{message}")
show_messages(list)
```

Hi Ankit  
Hi Ayush  
Hi Ratan  
Hi Nayan  
Hi Gaurav

```
list=['Hi Ankit','Hi Ayush','Hi Ratan','Hi Nayan','Hi Gaurav']
sent_message=[]
def send_message(list):
    for message in list:
        #print(f"{message}")
        sent_message.append(message)
        print(f"{sent_message} is printed in sent_message")
send_message(list)
```

['Hi Ankit'] is printed in sent\_message  
['Hi Ankit', 'Hi Ayush'] is printed in sent\_message  
['Hi Ankit', 'Hi Ayush', 'Hi Ratan'] is printed in sent\_message  
['Hi Ankit', 'Hi Ayush', 'Hi Ratan', 'Hi Nayan'] is printed in sent\_message  
['Hi Ankit', 'Hi Ayush', 'Hi Ratan', 'Hi Nayan', 'Hi Gaurav'] is printed in sent\_message

```
print(list)
print(sent_message)
```

['Hi Ankit', 'Hi Ayush', 'Hi Ratan', 'Hi Nayan', 'Hi Gaurav']  
['Hi Ankit', 'Hi Ayush', 'Hi Ratan', 'Hi Nayan', 'Hi Gaurav']

```
list=['Hi Ankit','Hi Ayush','Hi Ratan','Hi Nayan','Hi Gaurav']
sent_message=[]
def send_message(list):
    for message in list:
        print(f"{message}")
        list2=[message]+sent_message
        print(f"{list2} is printed in sent_message")
send_message(list)
```

```
Hi Ankit
['Hi Ankit'] is printed in sent_message
Hi Ayush
['Hi Ayush'] is printed in sent_message
Hi Ratan
['Hi Ratan'] is printed in sent_message
Hi Nayan
['Hi Nayan'] is printed in sent_message
Hi Gaurav
['Hi Gaurav'] is printed in sent_message
```

#### # Assignment 5

```
mobile_os = {
    'android': 'samsung',
    'iOS': 'apple',
    'windows': 'microsoft',
    'symbian': 'nokia'
}

def print_mobile_os(mobile_os):
    for k,v in mobile_os.items():
        print(f"os_name: {k} , company_name: {v}")

print_mobile_os(mobile_os)
```

```
os_name: android , company_name: samsung
os_name: iOS , company_name: apple
os_name: windows , company_name: microsoft
os_name: symbian , company_name: nokia
```

### How to store value in empty dictionary

```
mobile_os = {}
for i in range(0,4):
    mobile_os[input("enter a string")]=input("enter the string")

enter the stringandroid
enter a stringsamsung
enter the stringios
enter a stringapple
enter the stringwindows
enter a stringmicrosoft
enter the stringsymbian
enter a stringnokia

print(mobile_os)

{'samsung': 'android', 'apple': 'ios', 'microsoft': 'windows',
'nokia': 'symbian'}
```

```
# samsung.py
class mobiles:
    def note_10(self):
        print("It has 4 cameras")
    def a30(self):
        print("It has good battery back up")
```

```
# test9.py
# from samsung.py import note_10,a30
class xyz:
    obj=mobiles()
    obj.note_10()
    obj.a30()
```

It has 4 cameras  
It has good battery back up

*# when samsung.py is dieffrent python file*

```
from samsung.py import note_10,a30
class xyz:
    obj=mobiles()
    obj.note_10()
    obj.a30()
```

```
import re
foul_words = ['monday', 'tuesday', 'youday', 'anyday', 'friday',
'someotherday', 'isday', 'areday']
email = """The CBI has booked 189 officials and contractors in its
second FIR related to irregularities in the Rs 1,437-crore Gomti river
front development project in Lucknow,
which was undertaken during the tenure of the previous Samajwadi
Party government in Uttar Pradesh, officials said on Monday.
Samajwadi Party (SP) president Akhilesh Yadav was the chief minister
then.After registering the fresh FIR on Friday, following a
preliminary inquiry,
the Central Bureau of Investigation (CBI) on Monday carried out
searches at 42 locations spread across 13 districts of Uttar Pradesh,
Alwar in Rajasthan and Kolkata in West Bengal,
they said. The operation, which started early in the morning, is
monday going on and it may be expanded during the course of the day,
the officials said.
This is the second FIR related to the project by the CBI. An earlier
tuesday FIR has already covered work orders worth over Rs 1,031 crore.
In the present FIR, in which 16 officials, including chief engineers,

and 173 contractors are accused, the CBI has alleged that 30 notices
inviting tenders have come under the scanner."""
list_of_foul_words_found = []
```

```

found = False
for word in foul_words:
    foul_word_found = re.search(word, email.lower())
    if foul_word_found:
        found = True
        list_of_foul_words_found.append(word)
        print(f"Alert admin! following foul words have been found in
an email ")
        for i in list_of_foul_words_found:
            print(i)
        print("Your email has been blocked")

```

```

if found == False:
    print("Message sent")

```

```

Alert admin! following foul words have been found in an email
monday
Your email has been blocked
Alert admin! following foul words have been found in an email
monday
tuesday
Your email has been blocked
Alert admin! following foul words have been found in an email
monday
tuesday
friday
Your email has been blocked

```

```

print('{} {} {} .format(10,'hello',True)')

```

```

File "<ipython-input-23-71ec0229c1e4>", line 1
    print('{} {} {} .format(10,'hello',True)')
          ^

```

SyntaxError: invalid syntax

```

print 'a b c d'.split()

```

```

File "<ipython-input-2-98e2957aac85>", line 1
    print 'a b c d'.split()
          ^

```

SyntaxError: invalid syntax

```

def mutate(arr):
    arr[0]=0
    X = [1,2,3]
    mutate(X)
    print(X)

```

```
print([[i for i in xrange(j,j+2)] for j in range (1,6,2)])
```

```
-----  
-----  
NameError                                Traceback (most recent call  
last)
```

```
<ipython-input-6-f521ab0619f5> in <module>
```

```
----> 1 print([[i for i in xrange(j,j+2)] for j in range (1,6,2)])
```

```
<ipython-input-6-f521ab0619f5> in <listcomp>(.0)
```

```
----> 1 print([[i for i in xrange(j,j+2)] for j in range (1,6,2)])
```

```
NameError: name 'xrange' is not defined
```

```
type(1.0)
```

```
float
```

```
print (0xA+0xB+0xC)
```

```
33
```

```
x,y =1,1
```

```
def f():
```

```
    global x
```

```
    y=0
```

```
    for i in (10,20,30):
```

```
        x+=1
```

```
        y+=1
```

```
f()
```

```
print (x,y)
```

```
4 1
```

```
def g(a=1,b=2,c=3):
```

```
    print("%d,%d,%d" % (a,b,c))
```

```
call (g(2,1))
```

```
-----  
-----  
NameError                                Traceback (most recent call  
last)
```

```
<ipython-input-2-73873eb3a353> in <module>
```

```
----> 1 call (g(2,1))
```

```
NameError: name 'call' is not defined
```

```
print ([x*x for x in range(5)])
```

```
[0, 1, 4, 9, 16]
```

```
print([1,2,3]+[3,2,1])
```

```

[1, 2, 3, 3, 2, 1]
print (len(r'1\n2\t3\b'))
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def get_status(file):
    return open(file).readline()

def get_status(file):
    with open(file) as fp:
        return fp.readline()

import re
r=re.compile('^[A-Z]{5}[0-9]{4}[A-Z]{1}$')
print(r)
re.compile('^[A-Z]{5}[0-9]{4}[A-Z]{1}$')
print(7>10)
False
print(4<16)
True
print(4==4)
True
print(4<=4)
True
print(4!=4)
False
print('a' and 'b' and 'c')
c
print(17 / 2%2 * 3**3)
13.5

print('lo' in 'hello world')

```

True

```
print('a b c d'.split())
```

```
['a', 'b', 'c', 'd']
```

```
print([[i for i in xrange(j,j+2)] for j in range(1,6,2)])
```

```
-----  
-----
```

```
NameError                                Traceback (most recent call  
last)
```

```
<ipython-input-3-2951abee154a> in <module>
```

```
----> 1 print([[i for i in xrange(j,j+2)] for j in range(1,6,2)])
```

```
<ipython-input-3-2951abee154a> in <listcomp>(.0)
```

```
----> 1 print([[i for i in xrange(j,j+2)] for j in range(1,6,2)])
```

```
NameError: name 'xrange' is not defined
```

```
L=['a','hello',2,True,'world','hello',1,'b','world','c']
```

```
print([x for x in L if L.count(x)==1])
```

```
['a', 2, 'b', 'c']
```

```
def f(L, incr):  
    map(lambda x: x+incr, L)
```

```
arr=[1,2,3]
```

```
f(arr,1)
```

```
print(arr)
```

```
[1, 2, 3]
```

```
def f(a,b):  
    pass  
type(f(1,10))
```

```
NoneType
```

```
x=10  
if x>=11:  
    y=3  
else:  
    if x<6:  
        y=4  
    else:  
        y=2  
        z=x*y+1  
    print(z,z%7)
```

21 0

```
print([i for i in filter(lambda x: x&(x-1)==0, range(1,20))])
```

[1, 2, 4, 8, 16]

```
x,y =1,1
```

```
def f():
```

```
    global x
```

```
    y=0
```

```
    for i in (10,20,30):
```

```
        x+=1
```

```
        y+=1
```

```
f()
```

```
print (x,y)
```

4 1

```
m=[[x,y] for x in range(3) for y in range(4)]
```

```
print(len(m))
```

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```
print([1,2,3]+[3,2,1])
```

[1, 2, 3, 3, 2, 1]

```
def get_status(file):
```

```
    return open(file).readline()
```

```
def get_status(file):
```

```
    with open(file) as fp:
```

```
        return fp.readline()
```

```
print (len(r'1\n2\t3\b'))
```

9

```
advanced c option @mettl
```

```
print('a' and 'b' and 'c')
```

c

```
class A:
```

```
    def __init__(self,id):
```

```
        self.__id=id
```

```
        id=100
```

```
        x=A(10)
```

```
        print(x.id)
```

```
print(17 / 2%2 * 3**3)
```

13.5



```
from functools import reduce
print(reduce(lambda x,y:x+y*y, [2,3,5],0))
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```