Python

Assignment 2

Name: Ayush Jhanwar

Email: ayush99jhawar@gmail.com

1. Write a Program to print new list which contains all the first Characters of strings present in a list.....

LIST_STATES = ["GOA","RAJASTHAN","KARNATAKA","GUJRAT","MANIPUR",

MADHYA PRADESH]

```
for i in LIST_STATES:
    print(i[0])
```

2. Write a program to replace each string with an integer value in a given list of strings.

The replacement integer value should be a sum of AScci values of each character of type corresponding string.....

LIST: ['GAnga', 'Tapti', 'Kaveri', 'Yamuna', 'Narmada']

```
k=0
for i in LIST:
    j=0
    sum_=0
    for j in i:
        sum_=sum_ + ord(j)
```

```
    LIST[k]=sum_
    k+=1
print(LIST)
```

3. ###### You have to run your Program at 9:00am. Date: 14th April 2020.

```
#HINT:
# You have to use datetime Module or time module..
# You have to convert your output in #LIST_FORMAT
# [ '2020-04-13' , '17:11:01.952975' ]
# you can use this with the helf of IF/Else statement

from datetime import datetime
from threading import Timer

x=datetime.today()
y=x.replace(day=x.day+1, hour=1, minute=0, second=0, microsecond=0)
delta_t=y-x

secs=delta_t.seconds+1

def hello_world():
    print "hello world"
    #...
```

t = Timer(secs, hello_world)

t.start()

4. GIve a tuple:

tuple = ('a','l','g','o','r','i','t','h','m')

1. Using the concept of slicing, print the whole tuple

2. delete the element at the 3rd Index, print the tuple.

print(t[0:])

t = t[:2] + t[3:]

print(t)

5. Take a list REGex=[1,2,3,4,5,6,7,8,9,0,77,44,15,33,65,89,12]

- print only those numbers greator then 20

- then print those numbers those are less then 10 or equal to 10

- store these above two list in two different list.

REGex=[1,2,3,4,5,6,7,8,9,0,77,44,15,33,65,89,12]

l1=[]

l2=[]

for i in REGex:

```
    if i > 20:
        print(i)
        l1.append(i)
    if i <= 10:
        print(i)
        l2.append(i)

print(l1)
print(l2)
```

6. Execute standard LINUX Commands using Python Programming

```
import os
cmd = 'wc -l my_text_file.txt > out_file.txt'
os.system(cmd)
```

7. Revise *args and **kwargs Concepts

```
def my_sum(*args):
    result = 0
    # Iterating over the Python args tuple
    for x in args:
        result += x
```

```
    return result


print(my_sum(1, 2, 3))



def concatenate(**kwargs):
    result = ""
    # Iterating over the Python kwargs dictionary
    for arg in kwargs.values():
        result += arg
    return result


print(concatenate(a="Real", b="Python", c="Is", d="Great", e="!"))
```