**Assignment-4 (Python)**

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

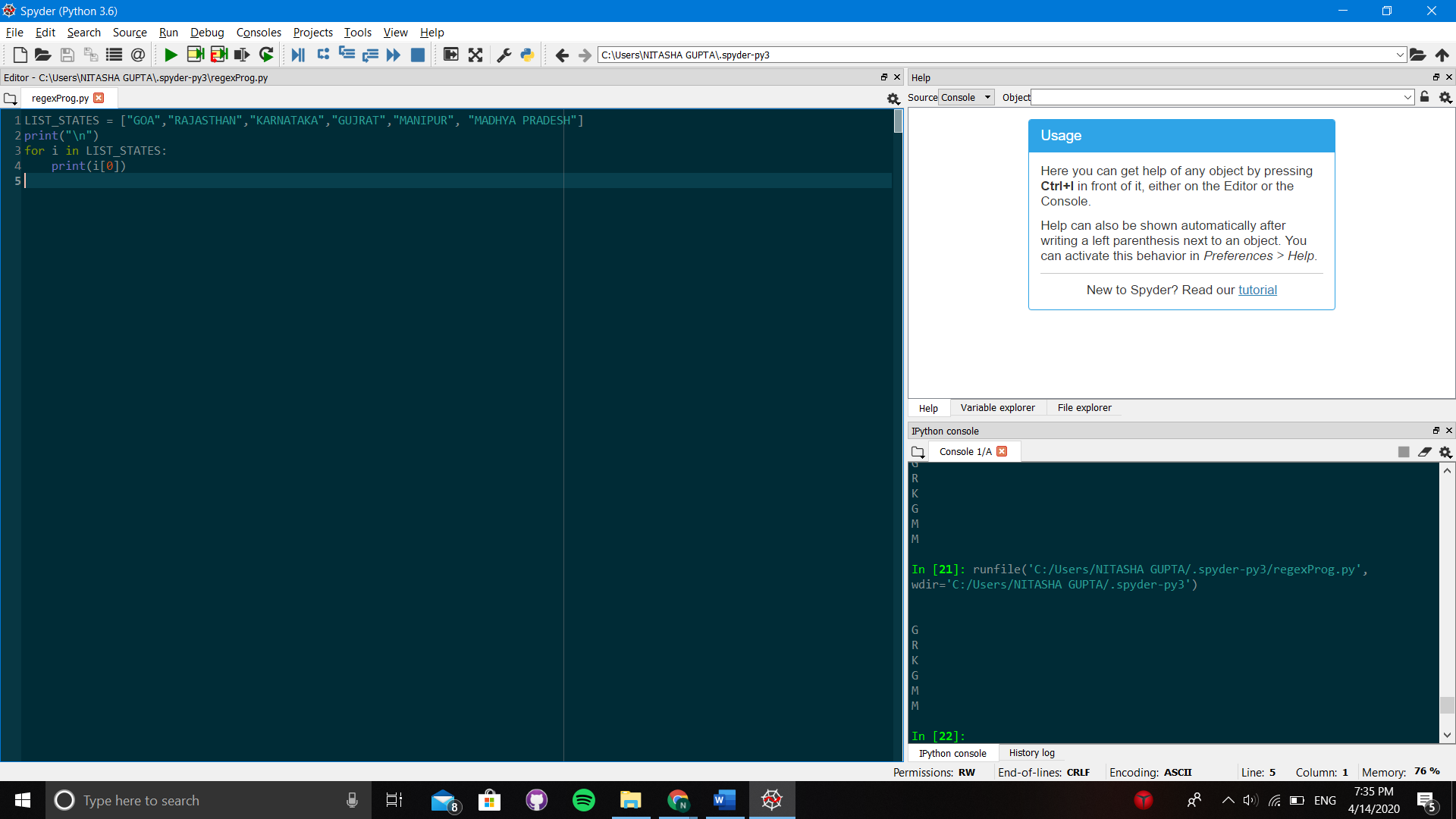
**LIST\_STATES = ["GOA","RAJASTHAN","KARNATAKA","GUJRAT","MANIPUR", “MADHYA PRADESH”]**

Sol.

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' ]

Sol.

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

c=0

for i in LIST:

j=0

sumTotal=0

for j in i:

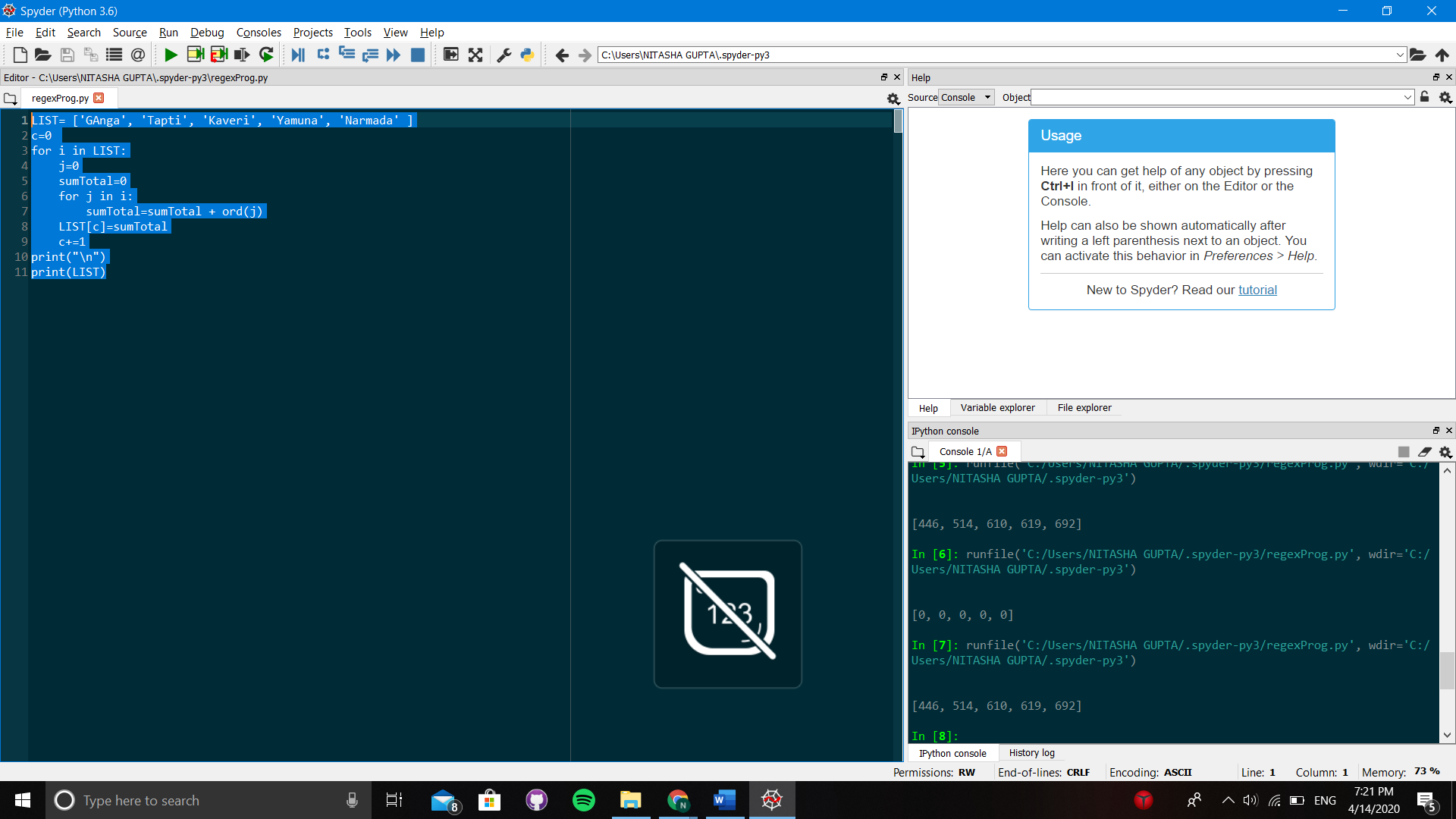
sumTotal=sumTotal + ord(j)

LIST[c]=sumTotal

c+=1

print("\n")

print(LIST)



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

Sol.

import datetime

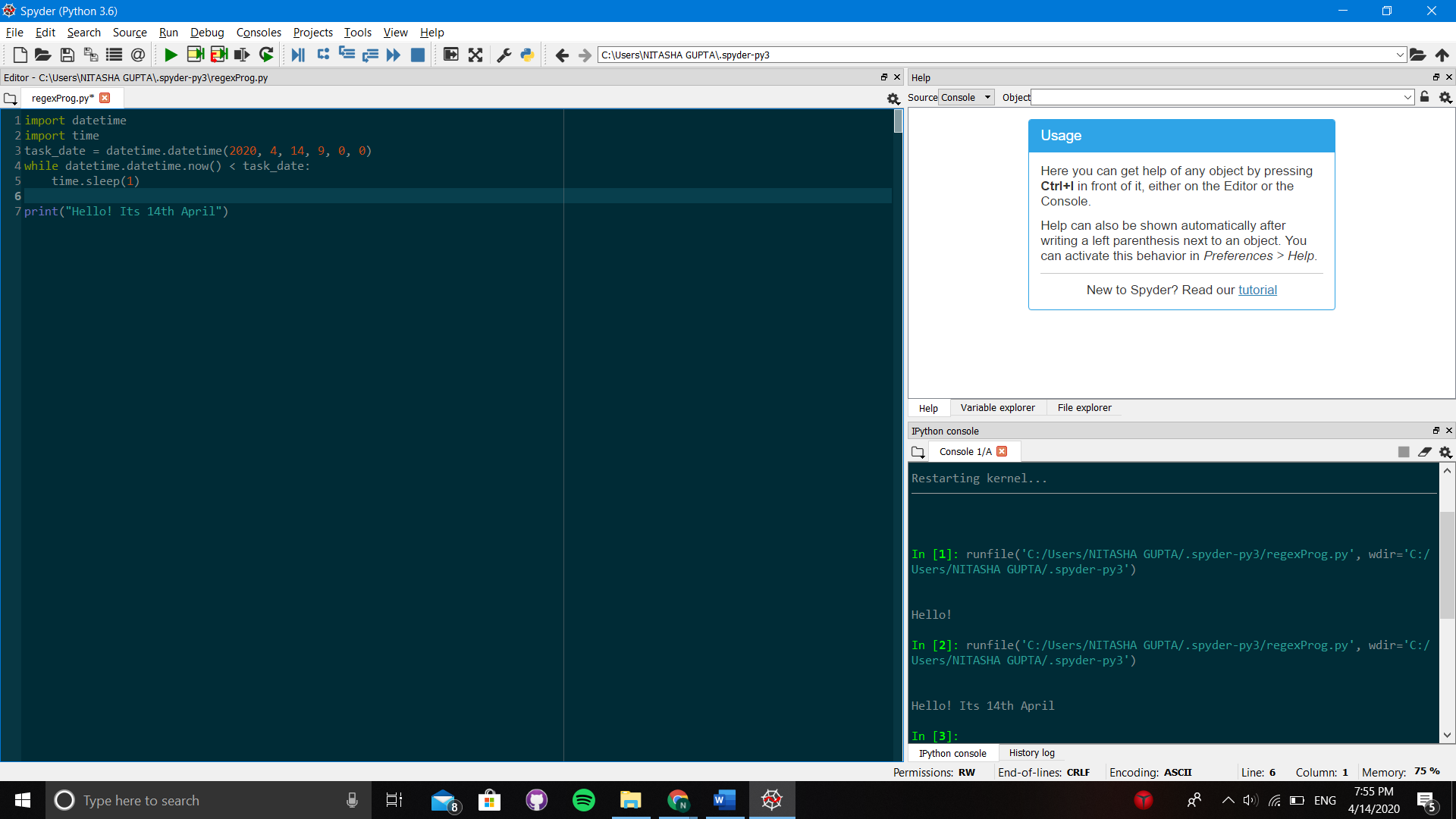
import time

task\_date = datetime.datetime(2020, 4, 14, 9, 0, 0)

while datetime.datetime.now() < task\_date:

time.sleep(1)

print("Hello! Its 14th April")



**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.**

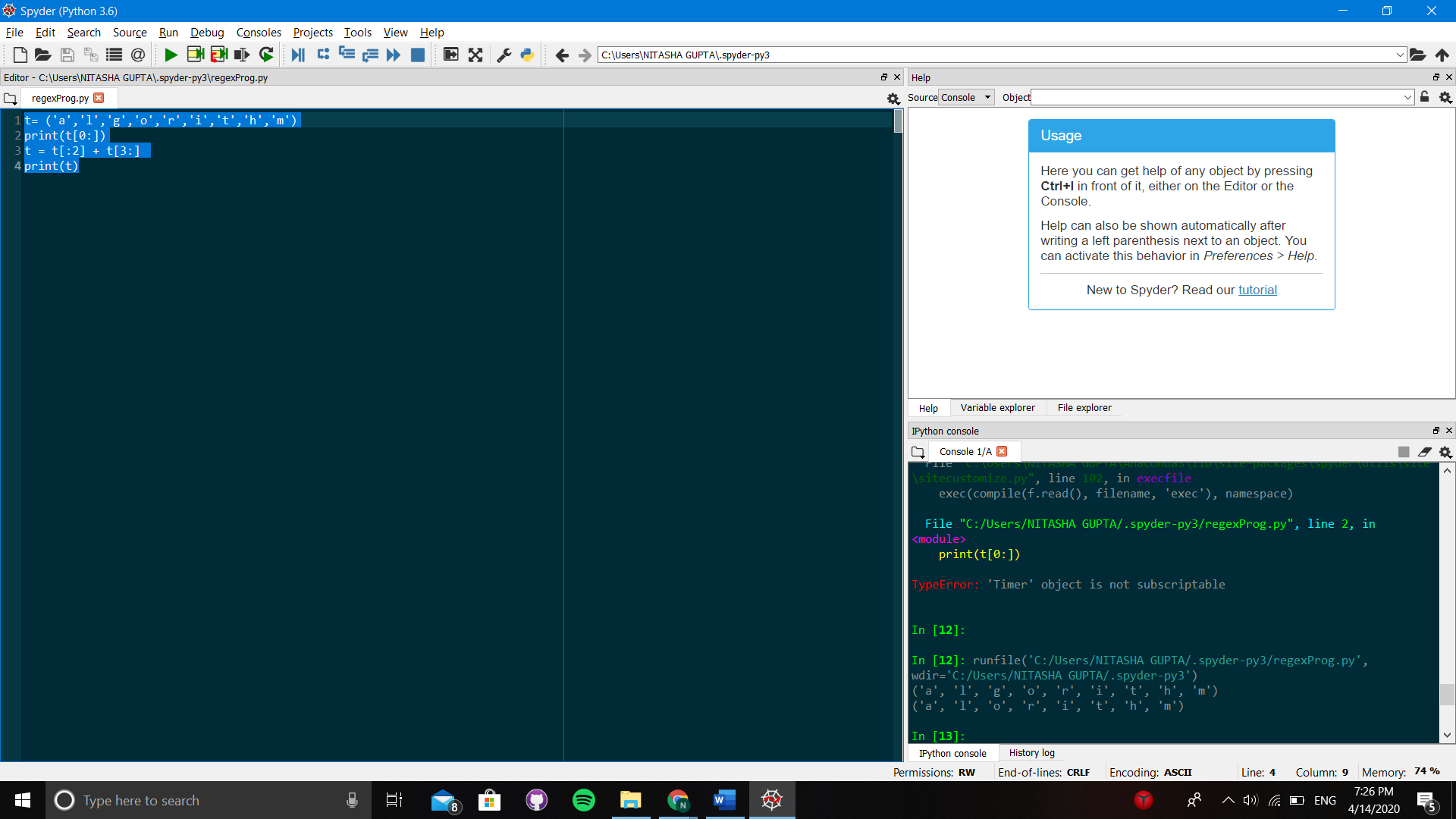
Sol.

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

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.**

Sol.

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

list1=[]

list2=[]

for i in REGex:

if i > 20:

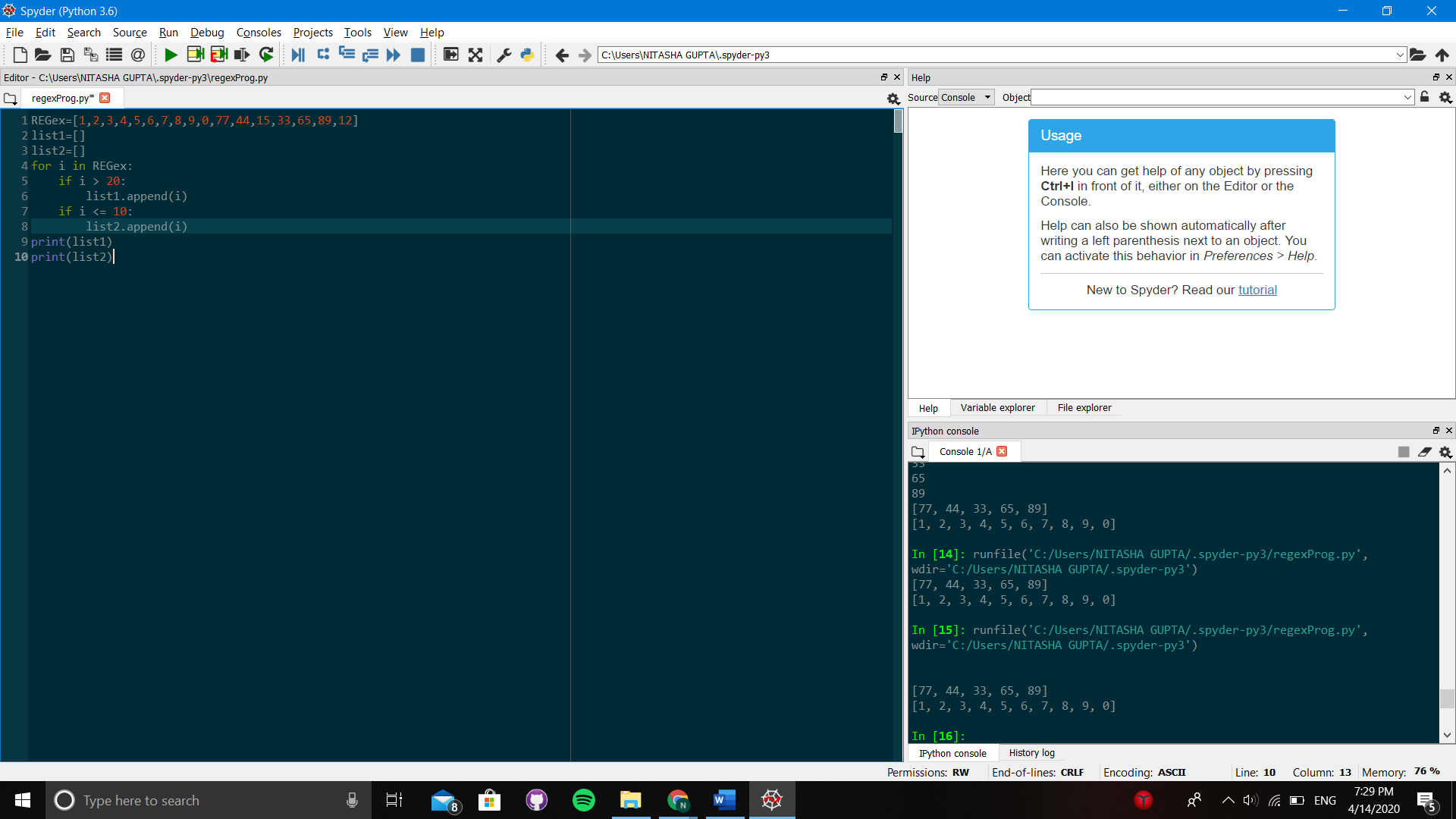
list1.append(i)

if i <= 10:

list2.append(i)

print(list1)

print(list2)



**6. Execute standard LINUX Commands using Python Programming**

Sol.

import os

cmd = 'wc -l my\_text\_file.txt > out\_file.txt'

os.system(cmd)

**7. Revise \*args and \*\*kwargs Concepts**

Sol.

def totalSum(\*args):

result = 0

for x in args:

result += x

return result

def concStr(\*\*kwargs):

result = ""

for arg in kwargs.values():

result += arg

return result

print(totalSum(1, 2, 3))

print(concStr(a="This", b="is", c="a", d="Python", e="Program"))

