**Dhanish Kumar Goswami**

**Assignment 2**

# Write a program to take out the element from their index values : x=[1,2,3,4,[10,20,30,40,[100,200,300,400],"riyazulhaque",5+5j],4000]

# [10,20]

# (5+5j)

# [300,400]

# [40,[100,200,300,400],"riyazulhaqu"]

# Code:

# list=[1,2,3,4,[10,20,30,40,[100,200,300,400],"riyazulhaque",5+5j],4000]

# list1=list[4]

# list2=list1[4]

# print(list1[0:2])

# print(list1[6])

# print(list2[2:])

# print(list1[3:6])

# 2) Write a program to take out the pair of numbers whose sum is equal to an even number. You should return the list from the range of 1 to 21

Code:

x=list(range(1,21))

for i in x:

a=i

for j in x:

b=j+1

c=a+b

if c%2==0:

print((a,b))

3) Write a program to calculate the frequency of any special

character if that exist in any string.

Code:

import re

from collections import Counter

word=input("Enter any string with some special characters?")

print("your string is ",word)

x = re.findall("\W", word)

if(x):

print("yes this contains special characters")

#print(x)

counts=Counter(x)

for i in x:

z={i,counts[i]}

print(z)

else:

print("not any special characters present in the string")

4) Write a program to print the list of numbers which has a cube of odd numbers in the range of 1,50

Code: (question is not clear I mean I did’nt get this question)

5) write a program to copy the list which has all the element multiplied by 3 but it should not reflect the result to the original list.

Code:

list = [1, 2, 3, 4, 5]

new\_list = [i \* 3 for i in list]

print(new\_list)

6) write a program to calculate the length of each word in the sentence.

Code:

string=input("ENter your sentence here?")

a=string.split()

#print(a)

for i in a:

x=len(i)

print(i,x)

7) write a program to return true if the list consist only integer values only and if no return false

Code:

string = input ("Enter your age")

try:

val = int(string)

print("Yes input string is an Integer.")

print("Input number value is: ", val)

except ValueError:

print("That's not an int!")