Assignment 3

1. 1. Write a program which takes a tuple as an input and remove the first and last element from the tuple. And returns a tuple as an output. (hint: convert the tuple into a list)

#delete element first and last elemnet from the tuple

x = ('apple','banana','cherry','orange')

# converting tuple to list

y = list(x)

# deleting the elements on index 0 and -1

del y[0]

del y[-1]

#converting list to tuple again

x = tuple(y)

# Printing the tuple with rest of the elements

print(x)

2.Given a list of numbers, determine the odd and even numbers from the list and print 2 separate list of numbers.

#This program check from list of numbers and print number with even on odd

Numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

#This is check for even numbers

evenList = [num for num in Numbers if num%2==0]

print('Even\_list =', end='')

print(evenList)

#This is check for odd numbers

oddList = [num for num in Numbers if num%2==1]

print('Odd\_list =', end='')

print(oddList)

3.Given a Python list, remove all occurrence of 20 from the list : list1 = [5, 20, 15, 20, 25, 50, 20]

#Please remove all occurrence of element 20 from list

list1 = [5, 20, 15, 20, 25, 50, 20]

# New list

list2 = []

# using for loop to iterate from list1 and using if!=20 condition to add to list2 using append method

for i in list1:

if i!=20 not in list2:

# Adding element in new

list2.append(i)

print(list2)

4.Take 2 lists and create a dictionary with one list being the keys other being values.

# From given two list creating a dictonary using first as key and second as values

lis\_1=['Fruits','Vegetables','Nuts']

lis\_2=['Orange','Potato','Almond']

#using for loop x:y way and running the loop for the number of element of first list using range and len methods

thisdic = {lis\_1[i]: lis\_2[i] for i in range(len(l\_1)) }

print(thisdic)

5.Take a paragraph as an input and store each word into a set and print the number of unique words. (Hint: use split method to convert each word into an item in a list)

# prining paragraph string into a list and counting the unique words

Paragraph = 'we had a little lamb which was son of maju and billo. We always loved this baby'

# using split method to make words element of a list

print(Paragraph.split())

#Printing the total number ofelement

print (len(Paragraph.split()))