**OCCURRENCE OF THE WORD**

**AIM:**

Count the occurrences of each word in a line of text

**ALGORITHM:**

1. Input a word.
2. Read the word and split the line to form a list of words.
3. Check if the words in the list are equal and if they are, increment the word count.
4. Print occurrence of each word in a line of text.

**SOURCE CODE:**

sentence = input("ENTER THE SENTENCE:")

words = sentence.split()

counts = dict()

for word in words:

if word in counts:

counts[word] += 1

else:

counts[word] = 1

print(counts)

**OUTPUT:**

ENTER THE SENTENCE: which is the fastest car in the world

{‘which’ : 1,‘is’ : 1, ‘the’ : 2, ‘fastest’ : 1, ‘car’ : 1, ‘in’ : 1, ‘world’ : 1 }

**RESULT:**

Program ran successfully and output is verified.

**FILTERING INTEGERS**

**AIM:**

Prompt the user for a list of integers. For all values greater than 100, store **‘over’** instead

**ALGORITHM:**

1. Input numbers.
2. Check number is greater than 100
3. Print number greater than 100 as ‘over’.

**SOURCE CODE:**

num = []

n = int(input("ENTER THE NUMBER OF ELEMENTS:"))

print("ENTER THE LIST OF INTEGERS:")

for i in range(1,n+1):

e = int(input())

if(e>100):

num.append("OVER")

else:

num.append(e)

print("ENTERED LIST:",num)

**OUTPUT:**

ENTER THE NUMBER OF ELEMENTS: 5

ENTER THE LIST OF INTEGERS: 32 999 123 1 5

ENTERED LIST: [32, ‘over’, ‘over’, 1, 5]

**RESULT:**

Program ran successfully and output is verified.

**COUNT THE OCCURRENCE OF ‘A’**

**AIM:**

Store a list of first names. Count the occurrences of ‘a’ within the list

**ALGORITHM:**

1. Input number of names in a list.
2. Input the first names to add in a list.
3. Print occurrence of a.

**SOURCE CODE:**

names = []

acount = 0

n = int(input("ENTER THE NUMBER OF FIRST NAMES:"))

print("ENTER THE NAMES:")

for i in range(1,n+1):

name = input()

names.append(name)

for name in names:

acount += name.lower().count('a')

print("Number of a : ",acount)

**OUTPUT:**

ENTER THE NUMBER OF FIRST NAMES: 3

ENTER THE NAMES: Kamal Arun Arjun

Number of a : 4

**RESULT:**

Program ran successfully and output is verified.