**MENU DRIVEN PROGRAM USING STRINGS**

**QUESTION**:

Write a menu driven program to create tuple and perform the following:

1. Print the count of letters in the string

2. Print the number of uppercase, lowercase, vowels, and digits

3. Reverse the string and check with it’s a palindrome

**CODE**:

a = input('Enter String: ')

while True:

opt = int(input('1) Print the count of letters in the string\n2) Print the number of upper-case, lower-case, vovels and digits\n3) Reverse the string and check whether its a palindrome\n4. Exit\nEnter an option corresponding to you choice: '))

if opt == 1:

leng = {}

for i in a:

if i in leng:

leng[i] += 1

else:

leng[i]= 1

print(leng)

elif opt == 2:

upper = 0

lower = 0

vovel= 0

digit = 0

digitlist = ['1','2','3','4','5','6','7','8','9','0']

vovellist = ['a','e','i','o','u','A','E','I','O','U']

for i in a:

if 'A' <= i <= 'Z':

upper += 1

elif 'a' <= i <= 'z':

lower += 1

if i in digitlist:

digit += 1

if i in vovellist:

vovel += 1

print(f'Upper: {upper}\nLower: {lower}\nDigits: {digit}\nVovels: {vovel}')

elif opt == 3:

if a == a[::-1]:

print('It is a palindrome')

else:

print('Not a palindrome')

elif opt == 4:

break

else:

print('Invalid Option')

**OUTPUT**:

Enter String: amrith

1) Print the count of letters in the string

2) Print the number of upper-case, lower-case, vovels and digits

3) Reverse the string and check whether its a palindrome

4. Exit

Enter an option corresponding to you choice: 1

{'a': 1, 'm': 1, 'r': 1, 'i': 1, 't': 1, 'h': 1}

1) Print the count of letters in the string

2) Print the number of upper-case, lower-case, vovels and digits

3) Reverse the string and check whether its a palindrome

4. Exit

Enter an option corresponding to you choice: 2

Upper: 0

Lower: 6

Digits: 0

Vovels: 2

1) Print the count of letters in the string

2) Print the number of upper-case, lower-case, vovels and digits

3) Reverse the string and check whether its a palindrome

4. Exit

Enter an option corresponding to you choice: 3

Not a palindrome

1) Print the count of letters in the string

2) Print the number of upper-case, lower-case, vovels and digits

3) Reverse the string and check whether its a palindrome

4. Exit

Enter an option corresponding to you choice: 4