**Practical 1**

Write a program to perform encryption and decryption using Caesar cipher algorithm.

Encryption procedure: if the alphabet index is even then increase the value by one else decrease the key value by one.

Decryption Procedure: if the alphabet index is even then decrypting the value by one else increase the key value by one.

* **CODE :-**

key=1

s\_msg=input("Enter your message : ")

sm\_l=list(s\_msg)

def encrypt(sm\_l,key):

l1=[]

for k in sm\_l:

x=0

m=int(ord(k))

if k.isupper():

x=65

else:

x=97

if m%2==0:

j=chr((m+key-x)%26+x)

else:

j=chr((m-key-x)%26+x)

l1.append(j)

return l1

def decrypt(l1,key):

l2=[]

for k in l1:

x=0

m=int(ord(k))

if k.isupper():

x=65

else:

x=97

if m%2==0:

j=chr((m+key-x)%26+x)

else:

j=chr((m-key-x)%26+x)

l2.append(j)

return l2

en\_sml=encrypt(sm\_l,key)

print("Encrypted data is : ")

for x in en\_sml:

print(x,end="")

print()

#print(li1)

#print()

de\_sml=decrypt(en\_sml,key)

print("Decrypted data is : ")

for x in de\_sml:

print(x,end="")

#print()

#print(li2)

* **OUTPUT :-**

