**Practical 4**

Write a program to perform encryption and decryption using Polyalphabetic Cipher (Vigenere Cipher) Technique.

* **CODE :-**

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

sm\_l=list(s\_msg)

key=list(input("enter key : "))

ke1=[]

p=0

for i in sm\_l:

ke1.append(key[p])

p=(p+1)%len(key)

def encrypt(sm\_l,key):

l1=[]

o=0

for k in sm\_l:

x=0

ke=int(ord(key[o]))

m=int(ord(k))

o=o+1

if k.isupper():

x=65

else:

x=97

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

l1.append(j)

return l1

def decrypt(l1,key):

l2=[]

o=0

for k in l1:

x=0

ke=int(ord(key[o]))

m=int(ord(k))

o=o+1

if k.isupper():

x=65

else:

x=97

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

l2.append(j)

return l2

en\_sml=encrypt(sm\_l,ke1)

print("Encrypted data is : ")

for x in en\_sml:

print(x,end="")

print()

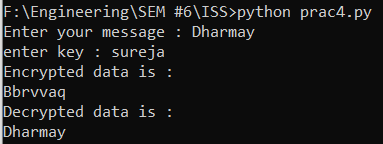
de\_sml=decrypt(en\_sml,ke1)

print("Decrypted data is : ")

for x in de\_sml:

print(x,end="")

* **OUTPUT :-**

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