4.Polyalphabetic Substitution Cipher

Code:

def generateKey(string, key):

key = list(key)

if len(string) == len(key):

return(key)

else:

for i in range(len(string) -

len(key)):

key.append(key[i % len(key)])

return("" . join(key))

def cipherText(string, key):

cipher\_text = []

for i in range(len(string)):

x = (ord(string[i]) +

ord(key[i])) % 26

x += ord('A')

cipher\_text.append(chr(x))

return("" . join(cipher\_text))

if \_\_name\_\_ == "\_\_main\_\_":

string = "GEEKSFORGEEKS"

keyword = "AYUSH"

key = generateKey(string, keyword)

cipher\_text = cipherText(string,key)

print("Ciphertext :", cipher\_text)

Output:

Ciphertext : GCYCZFMLYLEIM