**Code :**

import string

all\_alphabets = list(string.ascii\_uppercase)

def encoder(key):

encoded = ""

arr = [False]\*26

for i in range(len(key)):

if key[i] >= 'A' and key[i] <= 'Z':

if arr[ord(key[i]) - 65] == False:

encoded += key[i]

arr[ord(key[i]) - 65] = True

elif key[i] >= 'a' and key[i] <= 'z':

if arr[ord(key[i]) - 97] == False:

encoded += chr(ord(key[i]) - 32)

arr[ord(key[i]) - 97] = True

for i in range(26):

if arr[i] == False:

arr[i] = True

encoded += (chr(i + 65))

return encoded

def decipheredIt(msg, encoded):

plaintext = "ABCDEFGHIJKLMNOPQRSTUVWXYZ"

decipher = ""

enc = {}

for i in range(len(encoded)):

enc[encoded[i]] = i

for i in range(len(msg)):

if msg[i] >= 'a' and msg[i] <= 'z':

pos = enc.get((chr)(msg[i]-32))

decipher += plaintext[pos]

elif msg[i] >= 'A' and msg[i] <= 'Z':

pos = enc.get(msg[i])

decipher += plaintext[pos]

else:

decipher += msg[i]

return decipher

key = "Howareyoudoing"

print("Keyword : " + key)

decoded = encoder(list(key))

message = "EUUDN TIL EUUDN"

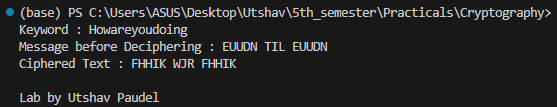
print("Message before Deciphering : " + message)

print("Ciphered Text : " + decipheredIt(message, decoded))

**Programming Language: Python**

**IDE: VS Code**

**OUTPUT:**

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