**Assignment 01**

* Implement the mechanism of encryption and decryption in Caesar Cipher using the Python programming language

**Note:** You can use any coding practices.

def caesar\_cipher(text, shift):

result = ""

for char in text:

if char.isalpha():

shift\_amount = shift % 26

if char.islower():

encrypted\_char = chr(((ord(char) - ord('a') + shift\_amount) % 26) + ord('a'))

else:

encrypted\_char = chr(((ord(char) - ord('A') + shift\_amount) % 26) + ord('A'))

result += encrypted\_char

else:

result += char

return result

# To decrypt a message, you can use the same function with a negative shift value

def caesar\_decipher(text, shift):

return caesar\_cipher(text, -shift)

# Enter Data:

message = str(input('Entrt the Message = '))

key = int(input('Enter the Shift Key = '))

choice = str(input("If you need to Encrypt enter 'E' or If you need to Decrypt enter 'D' : "))

ver = choice.upper()

encrypted\_message = caesar\_cipher(message, key)

decrypted\_message = caesar\_decipher(encrypted\_message, key)

if ver == 'E':

print("Original Message:", message)

print("Encrypted Message:", encrypted\_message)

elif ver == 'D':

print("Original Message:", message)

print("Decrypted Message:", decrypted\_message)