# Code

def Encryption(plaintext, key\_val):

    ciphertext = ''

    for i in plaintext:

        if i.isupper():

            temp = 65 + ((ord(i) - 65 + key) % 26)

            ciphertext = ciphertext + chr(temp)

        elif i.islower():

            temp = 97 + ((ord(i) - 97 + key) % 26)

            ciphertext = ciphertext + chr(temp)

        else:

            ciphertext = ciphertext + i

    return ciphertext

def Decryption(ciphertext, key\_val):

    plaintext = ''

    for i in ciphertext:

        if i.isupper():

            if ((ord(i) - 65 - key) < 0):

                temp = 65 + ((ord(i) - 65 - key + 26) % 26)

            else:

                temp = 65 + ((ord(i) - 65 - key) % 26)

            plaintext = plaintext + chr(temp)

        elif i.islower():

            if ((ord(i) - 97 - key) < 0):

                temp = 97 + ((ord(i) - 97 - key + 26) % 26)

            else:

                temp = 97 + ((ord(i) - 97 - key) % 26)

            plaintext = plaintext + chr(temp)

        else:

            plaintext = plaintext + i

    return plaintext

while True:

    print('Welcome to Ceaser Cipher Encryption and Decryption Program Made by Varun Khadayate..\n [\*] Press 1 for Encryption \n [\*] Press 0 for Decryption \n [\*] Press 01 to exit.. ')

    print('Tip ---> Encryption/Decryption with shift value of your choice ! ')

    choice = input('Insert Here : ')

    if choice.isdigit():

        if choice == '1':

            sen = input('Insert the plaintext : ')

            key = int(input('Insert shift value(Only integer values) : '))

            print(50 \* '-')

            print(f'Your ciphertext ---> {Encryption(sen, key)}')

            print(50 \* '-')

            con = input('Shall we continue ? [Any Key/no]')

            if con == 'no':

                print('Exiting..')

                break

            else:

                pass

        elif choice == '0':

            csen = input('Insert the ciphertext : ')

            key = int(input('Insert shift value(Only integer values) : '))

            print(50 \* '-')

            print(f'Your plaintext ---> {Decryption(csen, key)}')

            print(50 \* '-')

            con = input('Do you want to continue ? [Any Key/no]')

            if con == 'no':

                print('Exiting..')

                break

            else:

                pass

        elif choice == '01':

            print('Exiting..')

            print('Thank You for using the system')

            break

        else:

            print('Exception error .. \n'

                  'Please insert 0 or 1 ')

# Output

|  |
| --- |
| Welcome to Ceaser Cipher Encryption and Decryption Program Made by Varun Khadayate..  [\*] Press 1 for Encryption  [\*] Press 0 for Decryption  [\*] Press 01 to exit..  Tip ---> Encryption/Decryption with shift value of your choice !  Insert Here : 1  Insert the plaintext : Varun Khadayate  Insert shift value(Only integer values) : 10  --------------------------------------------------  Your ciphertext ---> Fkbex Urknkikdo  --------------------------------------------------  Shall we continue ? [Any Key/no]  Welcome to Ceaser Cipher Encryption and Decryption Program Made by Varun Khadayate..  [\*] Press 1 for Encryption  [\*] Press 0 for Decryption  [\*] Press 01 to exit..  Tip ---> Encryption/Decryption with shift value of your choice !  Insert Here : 0  Insert the ciphertext : Fkbex Urknkikdo!!!  Insert shift value(Only integer values) : 10  --------------------------------------------------  Your plaintext ---> Varun Khadayate!!!  --------------------------------------------------  Do you want to continue ? [Any Key/no]no  Exiting.. |