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)
```