# **Name: Abdurrahman Qureshi**

# **Roll No: 242466**

Practical No: 7

**1) Write a python program to read the contents of a file.**

CODE:

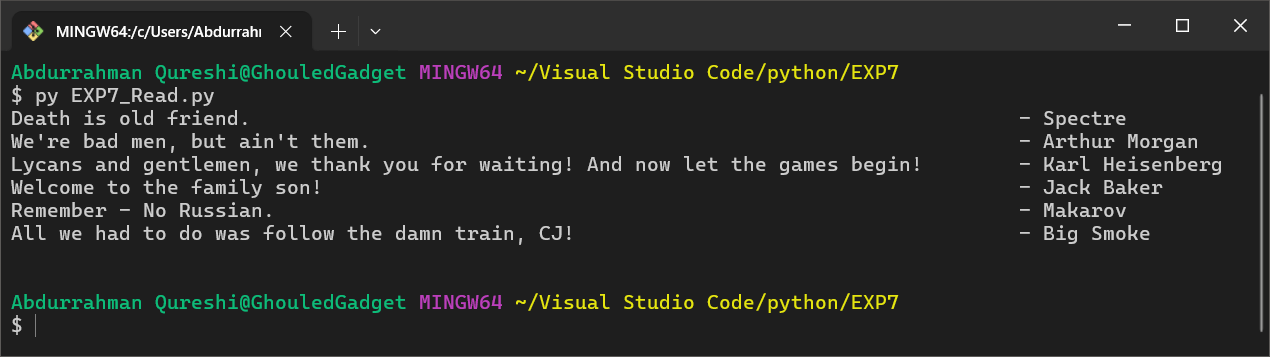
file = open("dialogues.txt", 'r')

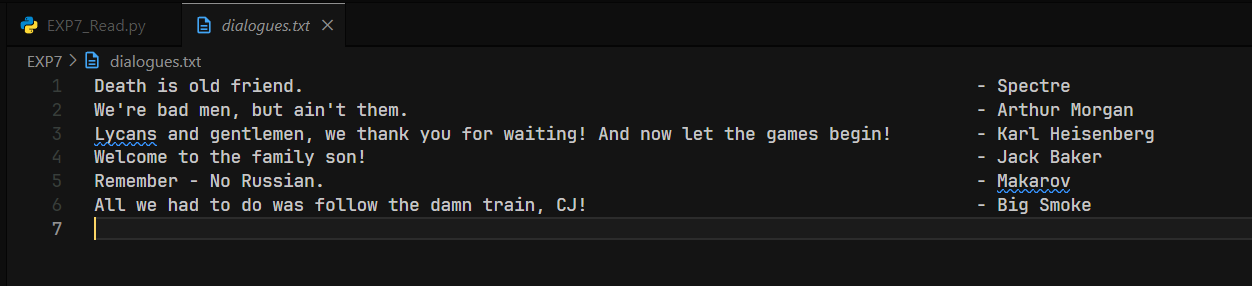
content = file.read()

print(content)

file.close()

OUTPUT:





**2) Write a python program to write into the file.**

CODE:

file = open("this\_file\_is\_for\_write.txt", 'w')

file.write("Ab ki baar modi sarkaar")

file.close()

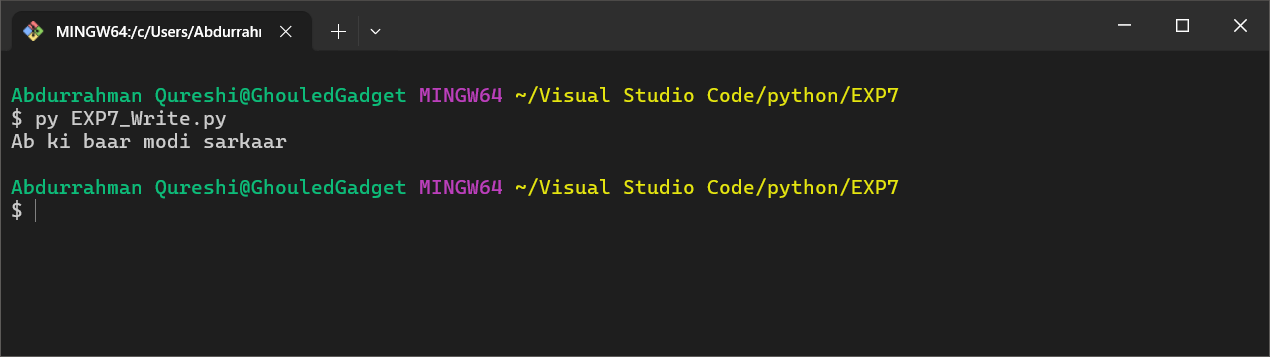
file = open("this\_file\_is\_for\_write.txt", 'r')

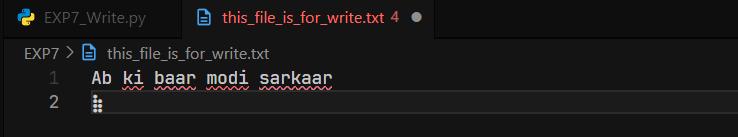
content = file.read()

print(content)

file.close()

OUTPUT:



****

**3) Write a python program to count the occurrences of a given word in a text file.**

CODE:

file = open("dialogues.txt", 'r')

content = file.read()

word\_to\_search = "the "

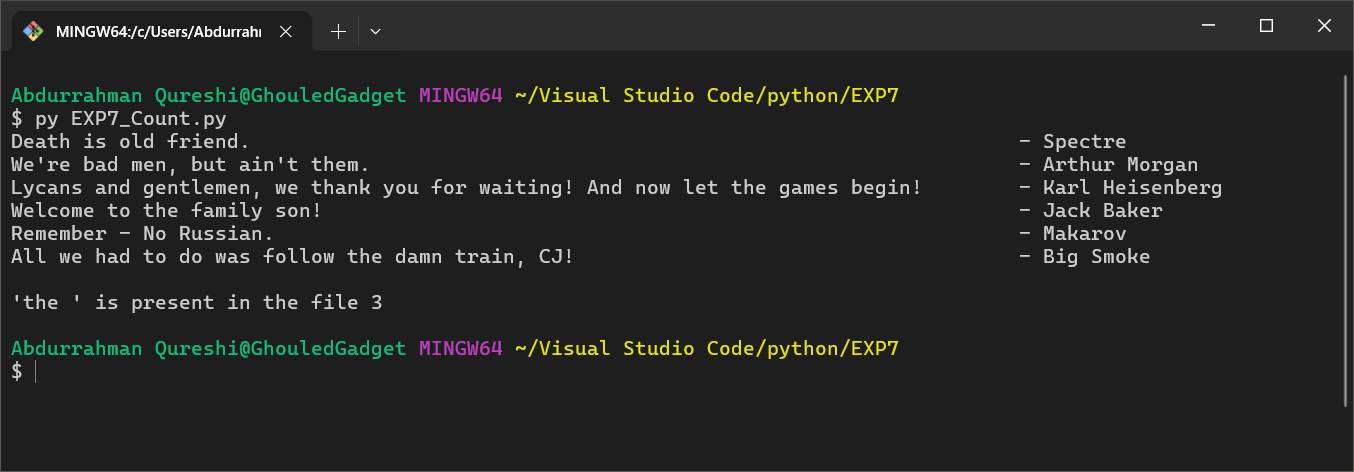
times = content.count(word\_to\_search)

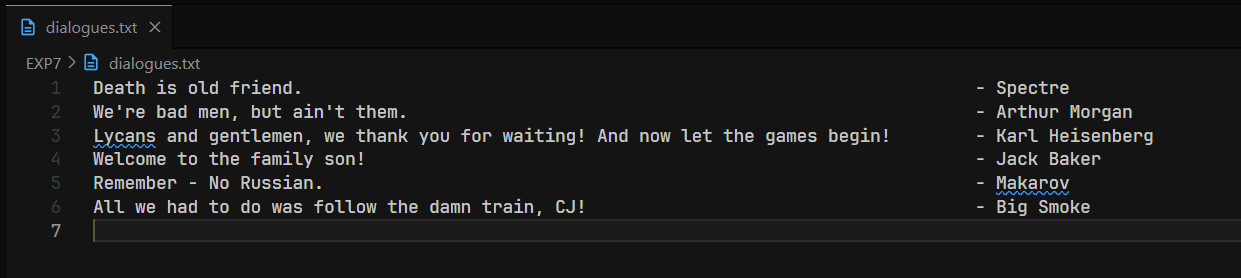
print(content)

print(f"'{word\_to\_search}' is present in the file {times}")

file.close()

OUTPUT:





**4) Write a python program to count total no. Of blank spaces in file and replace the blank spaces with a hashtag.**

CODE:

file = open("dialogues.txt", 'r')

content = file.read()

word\_to\_search = " "

print()

print("-------------------------------------------- Old Content --------------------------------------------")

print()

print(content)

replaced = content.replace(word\_to\_search , "#")

print("-------------------------------- New Content (' ' replaced with '#') --------------------------------")

print()

print(replaced)

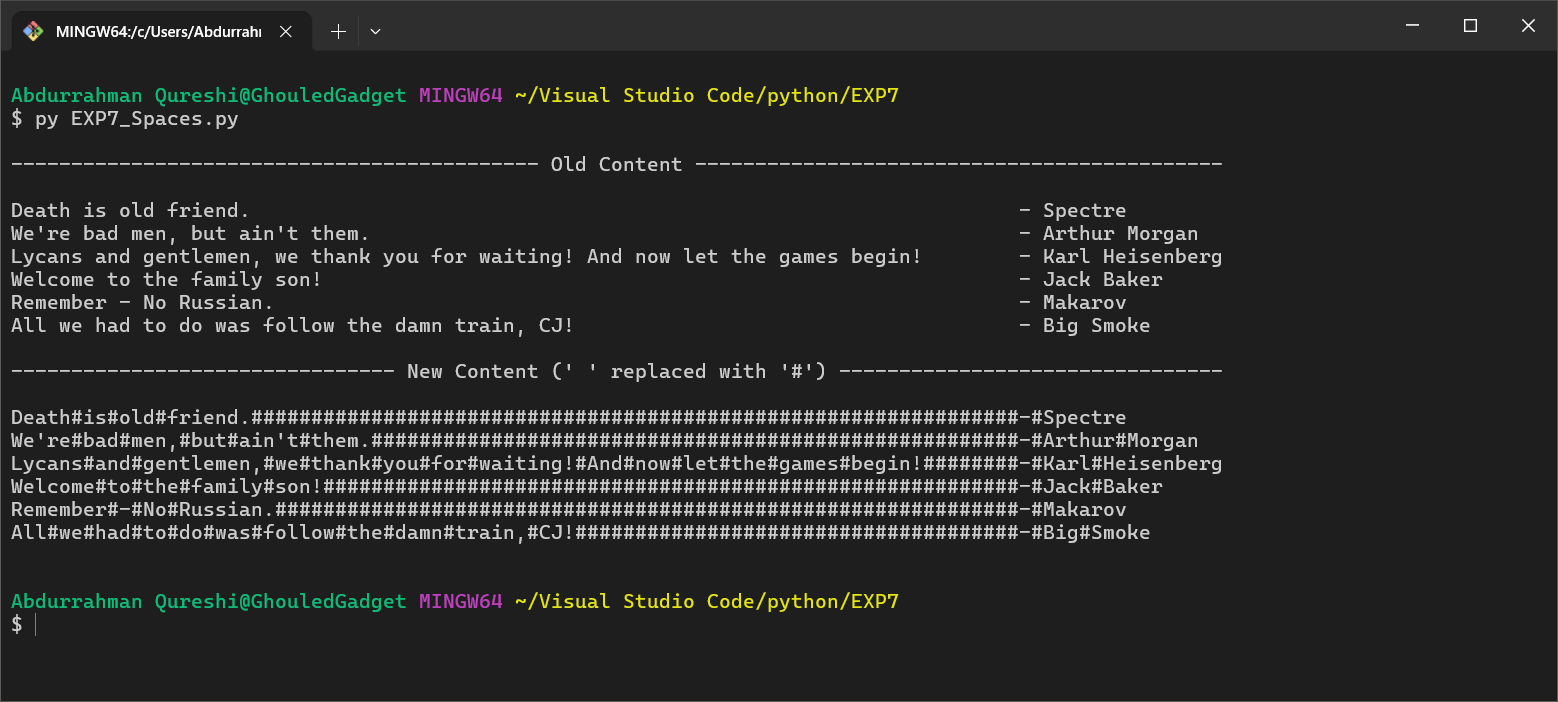
file.close()

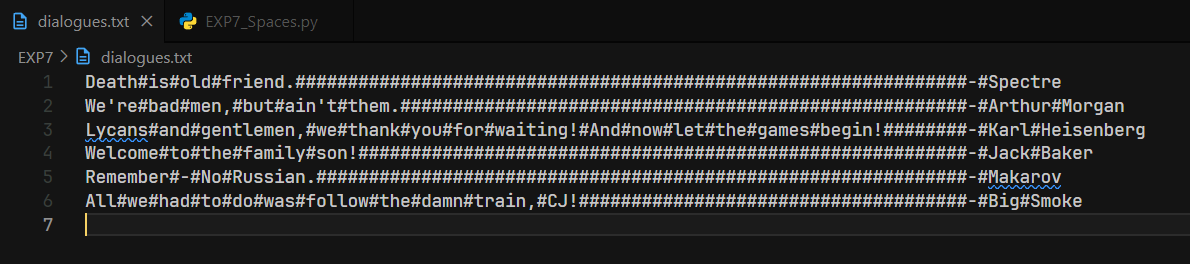
file = open("dialogues.txt", 'w')

file.write(replaced)

file.close()

OUTPUT:





**5) Write a python program to copy content from one file to another file.**

CODE:

file = open("dialogues.txt", 'r')

content = file.read()

print()

print("-------------------------------------------- Old File (dialogues.txt) --------------------------------------------")

print()

print(content)

print("---------------------------------------------- New File (copied.txt) ----------------------------------------------")

print()

print(content)

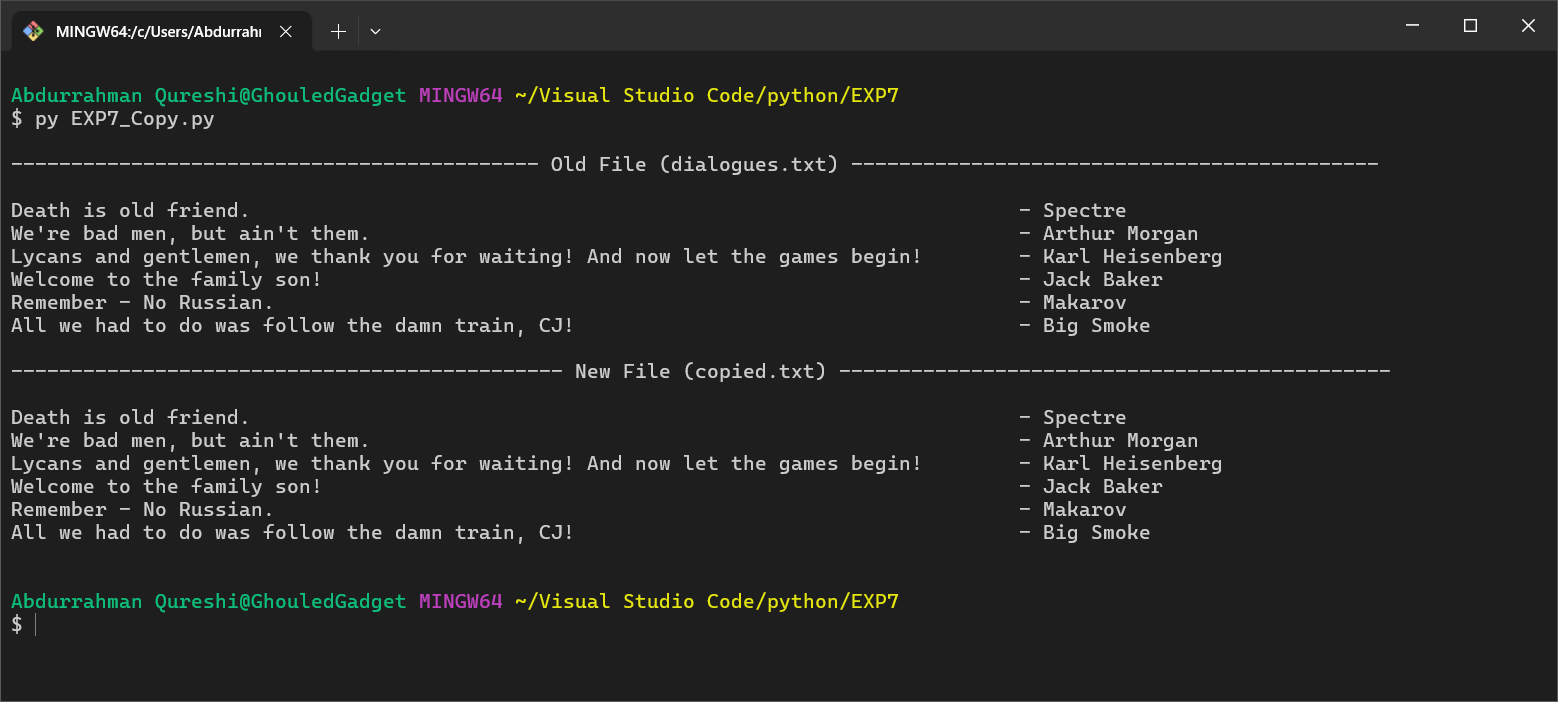
file.close()

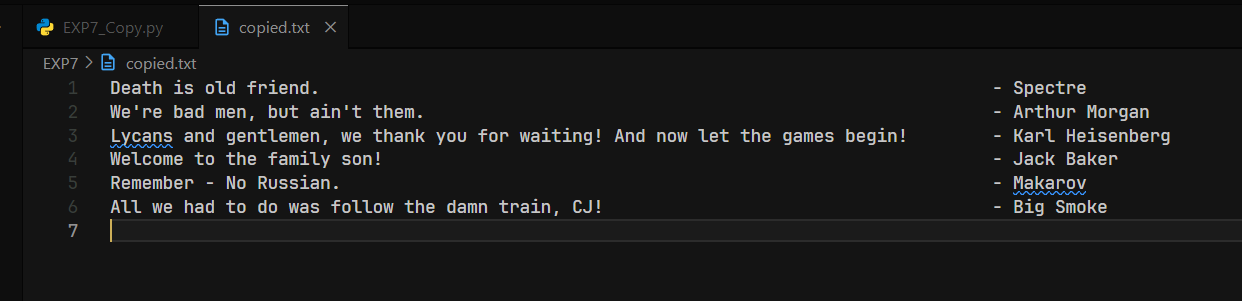
file = open("copied.txt", 'w')

file.write(content)

file.close()

OUTPUT:





**6) Write a python program to copy an image file.**

CODE:

old\_image = open("Lady Dimitrescu.png", "rb")

pixels = old\_image.read()

print(pixels)

old\_image.close()

new\_image = open("Lady D.png", "wb")

new\_image.write(pixels)

new\_image.close()

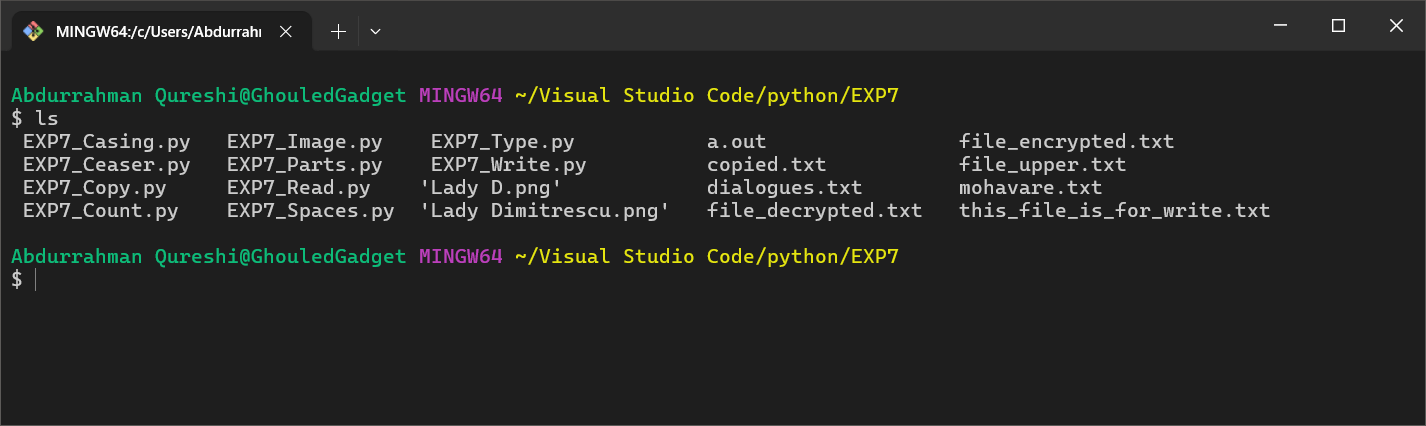
OUTPUT:



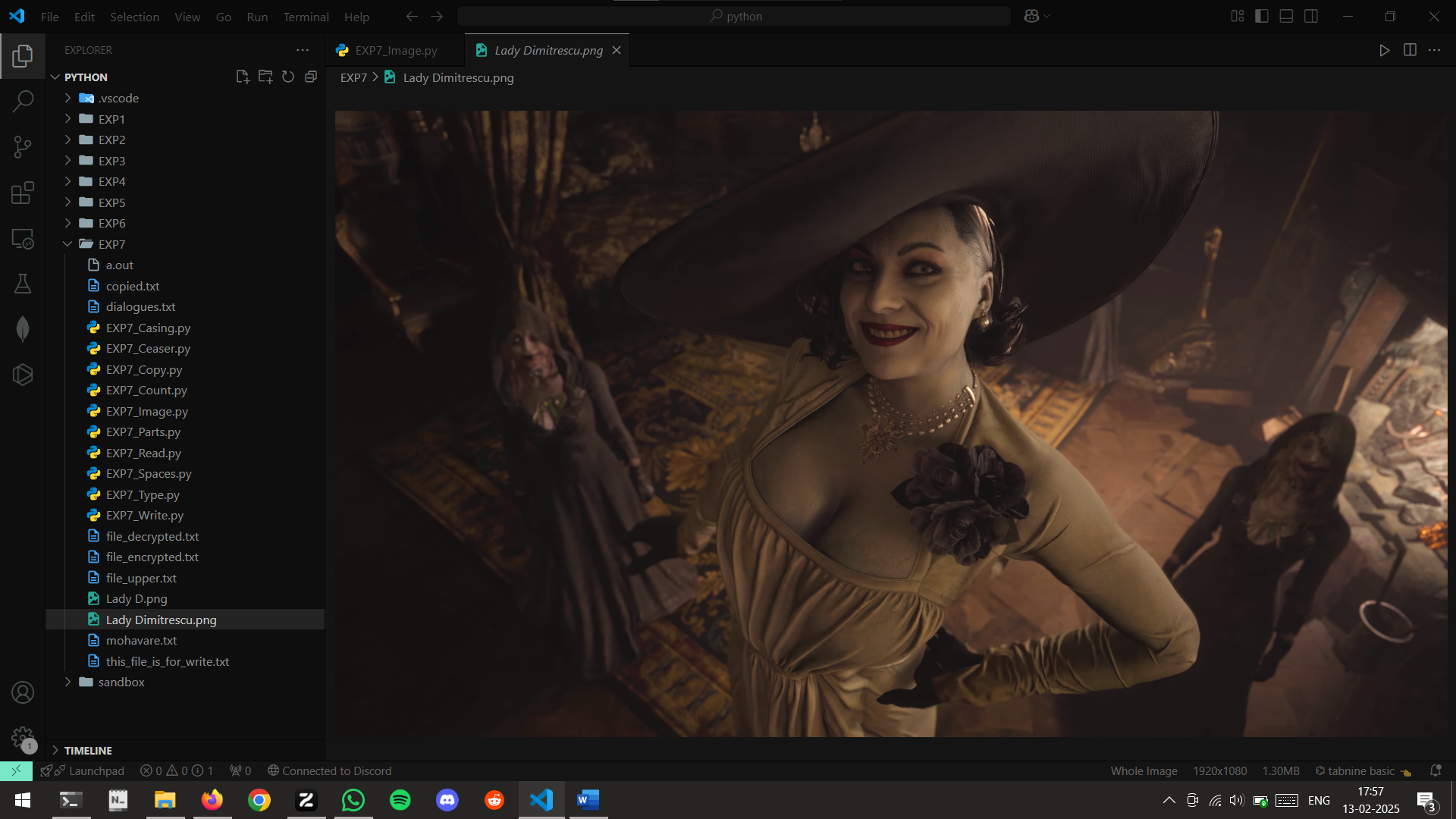
IMAGE IN ‘hexadecimal format’



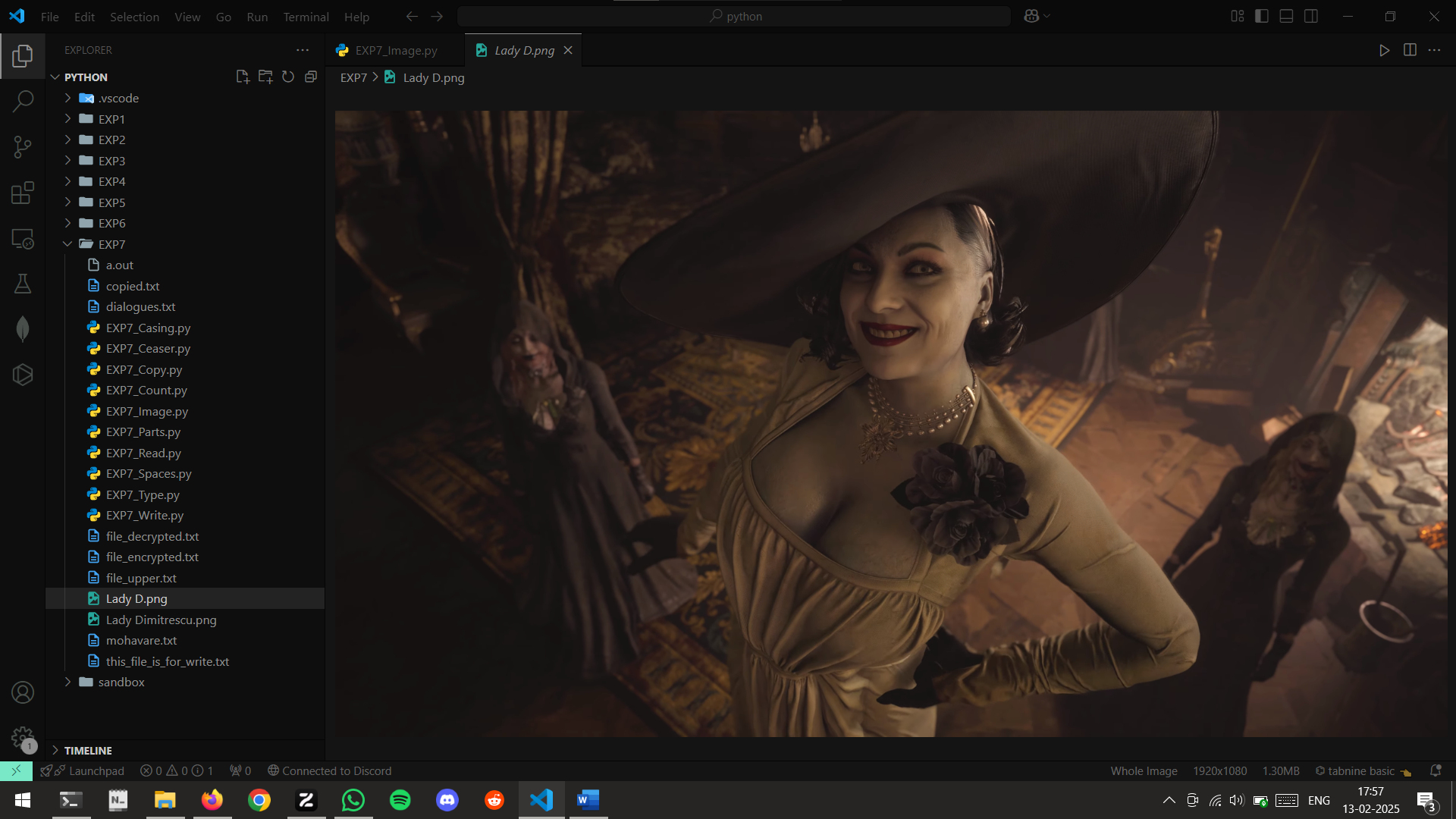
‘Lady D.png’was created and contains the copied the image



ORGINAL IMAGE ‘Lady Dimitrescu.png’:



COPIED IMAGE ‘Lady D.png’:



**7) Write a python program to convert lower case characters of one file to upper case characters in another file.**

CODE:

file\_lower = open("dialogues.txt", "r")

lower\_cased = ""

content = file\_lower.read()

for c in content:

    if c.islower():

        lower\_cased += c

    if c == " ":

        lower\_cased += " "

    if c == "\n":

        lower\_cased += "\n"

print(lower\_cased)

file\_lower.close()

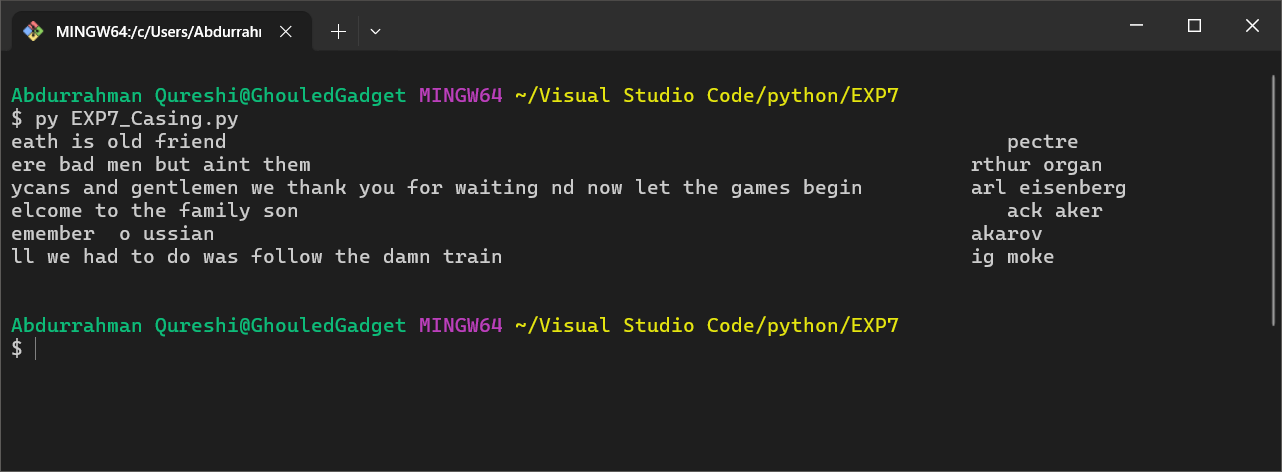
file\_upper = open("file\_upper.txt", "w")

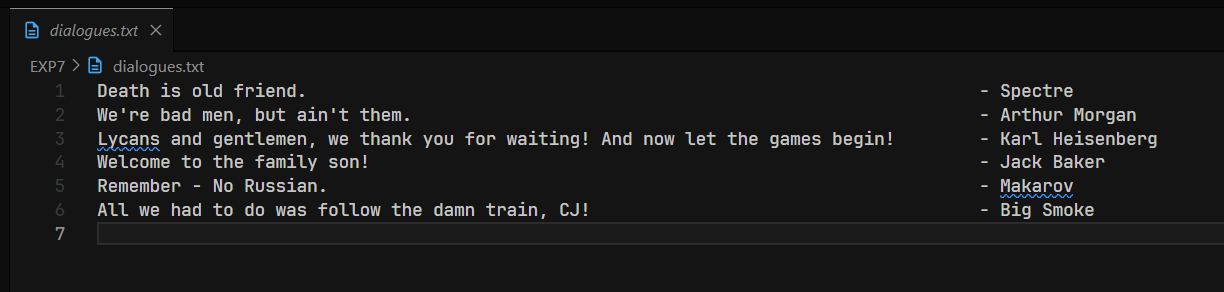
upper\_cased = lower\_cased.upper()

file\_upper.write(upper\_cased)

file\_upper.close()

OUTPUT:





**8) Write a python program to write into the file,read the content of the file and append into the file until the user enters @.**

CODE:

old\_file = open("dialogues.txt", "r")

content = old\_file.read()

old\_file.close()

new\_file = open("mohavare.txt", "w")

print()

print("Old Content")

print()

print(content)

char = ""

new\_file.write(content)

while char != "@":

    char = input("Enter '@' to exit:")

    new\_file.write(char)

new\_file.close()

new\_fileA = open("mohavare.txt", "r")

content = new\_fileA.read()

print()

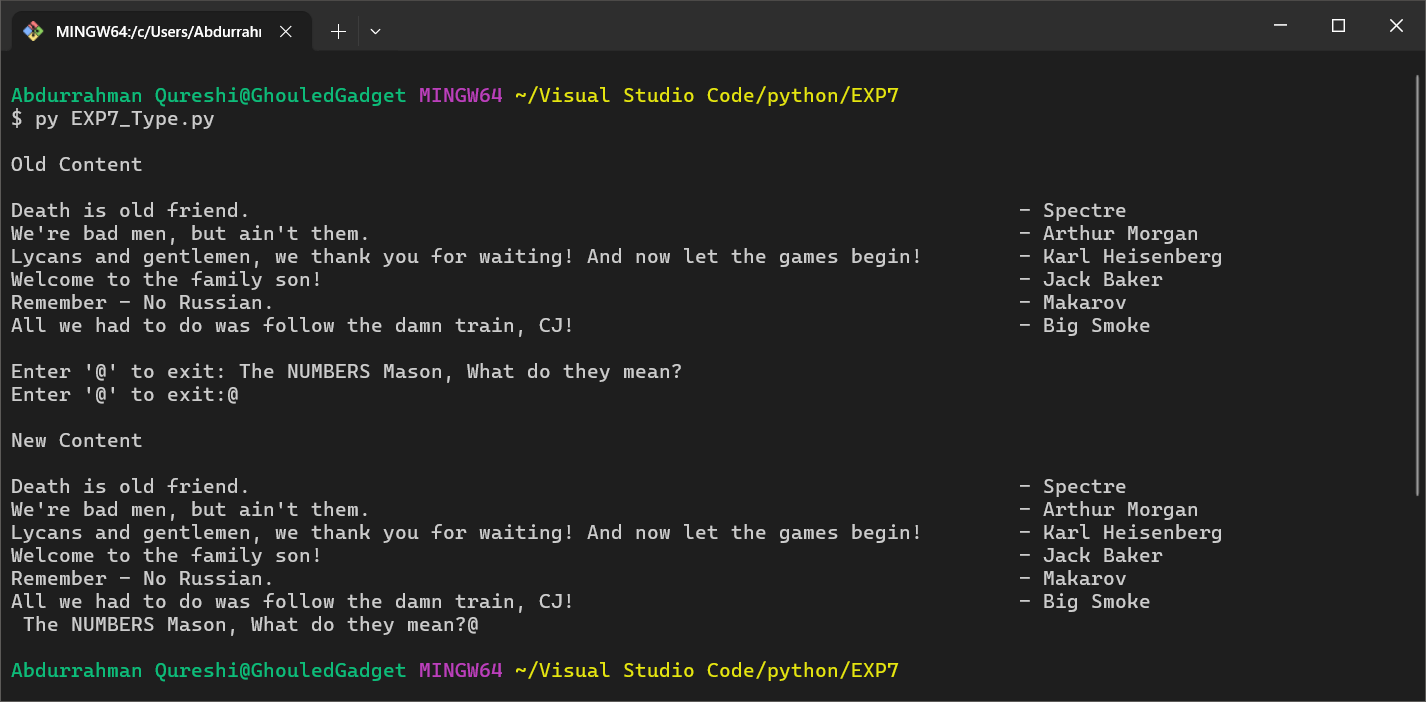
print("New Content")

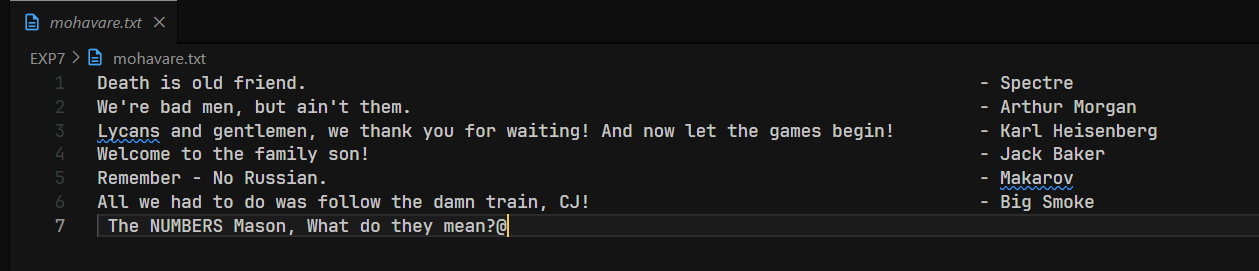
print()

print(content)

new\_fileA.close()

OUTPUT:





9) Write a python to count no. Of lines , no. Of words , no. Of characters in a text file.

CODE:

file = open("dialogues.txt", "r")

content = file.read()

num\_words = 0

num\_chars = len(content)

num\_lines = 0

for c in content:

    if c == " ":

        num\_words += 1

    elif c == "\n":

        num\_lines += 1

print()

print(content)

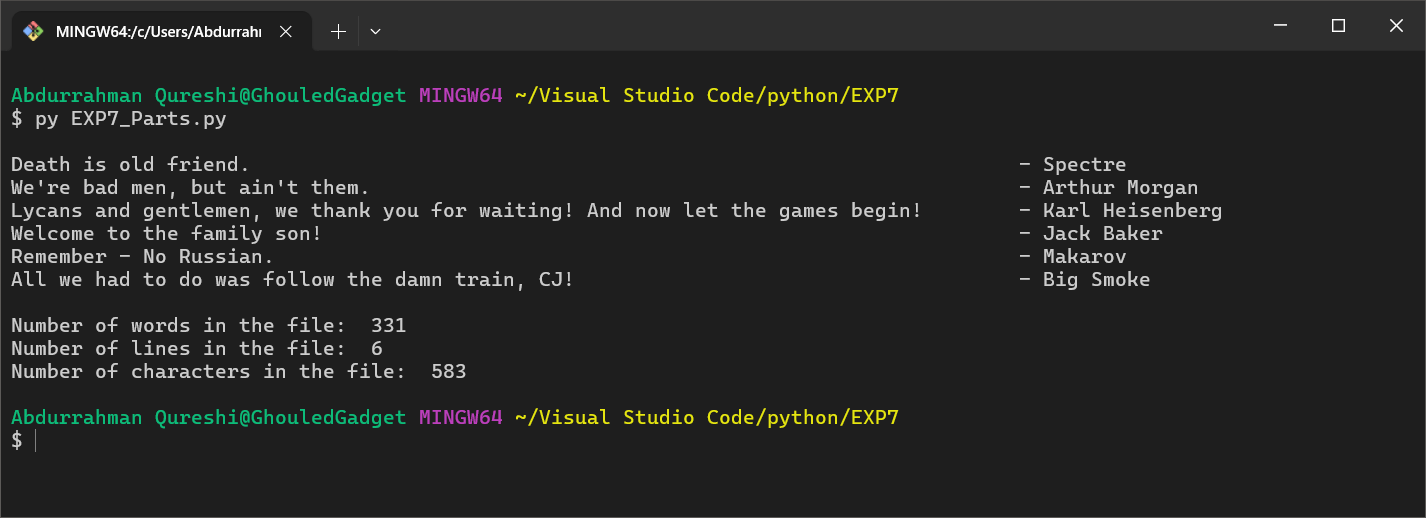
print("Number of words in the file: " , num\_words)

print("Number of lines in the file: " , num\_lines)

print("Number of characters in the file: " , num\_chars)

file.close()

OUTPUT:



**10) Write a python program to take input from a user encrypted and save it in a file, later read the contents of the file and display the decrypted messages.**

CODE:

def ceaser\_cipher(input, key, type):

    characters = ["A", "B", "C", "D", "E", "F", "G", "H", "I", "J", "K","M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z", "a", "b", "c", "d", "e", "f", "g", "h", "i", "j", "k", "l", "m", "n", "o", "p", "q", "r", "s", "t", "u", "v", "w", "x", "y", "z", "1", "2", "3", "4", "5", "6", "7", "8", "9", "0", "/", "+", " ", "-"]

    base64 = ""

    for char in input:

        if(type == True):

            base64 += characters[(characters.index(char) + key) % len(characters)]

        else:

            base64 += characters[(characters.index(char) - key) % len(characters)]

    return base64

file\_encrypted = open("file\_encrypted.txt", "w")

content = ""

c = ""

print()

while c != "<>":

    c = input("Enter a string to encrypt or decrypt, type '<>' to exit : ")

    content += c

con = content.replace("<>", " ")

encrypted = ceaser\_cipher(con, 17, True)

file\_encrypted.write(encrypted)

file\_encrypted.write(c)

file\_encrypted.close()

print("\nEncrypted content has been saved in 'file\_encrypted.txt'")

file\_decrypted = open("file\_decrypted.txt", "w")

decrypted = ceaser\_cipher(encrypted, 17, False)

file\_decrypted.write(decrypted)

file\_decrypted.close()

print("\nDecrypted content has been saved in 'file\_decrypted.txt'")

OUTPUT:

