**SHA1 and MD5**

**Server Code:-**

import socket

import hashlib

def hash\_message(message):

sha1 = hashlib.sha1(message.encode()).hexdigest()

md5\_ = hashlib.md5(message.encode()).hexdigest()

return sha1, md5\_

def start\_server():

server\_socket = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

server\_socket.bind(('localhost', 8085))

server\_socket.listen(1)

print("Server is listening on port...")

while True:

client\_socket, addr = server\_socket.accept()

print(f"Connection from {addr} has been established.")

message = client\_socket.recv(1024).decode()

print(f"Received message: {message}")

sha1, md5\_ = hash\_message(message)

response = f"SHA-1: {sha1}, MD5: {md5\_}"

client\_socket.send(response.encode())

client\_socket.close()

start\_server()

**Client code :-**

import socket

def send\_message(message):

client\_socket = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

client\_socket.connect(('localhost', 8085))

client\_socket.send(message.encode())

response = client\_socket.recv(1024).decode()

print(f"Response from server: {response}")

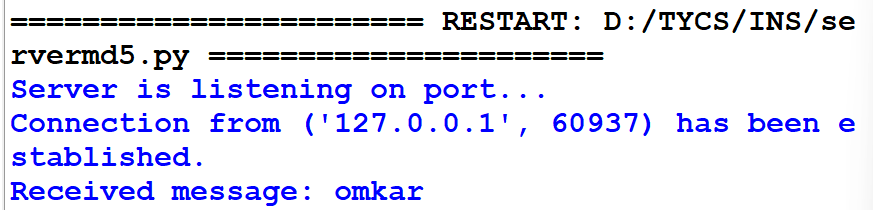
client\_socket.close()

message = input("Enter a message to hash: ")

send\_message(message)

OUTPUT:-

Server Output:-



Client Output:-

