**LAB-1**

**K20-1052**

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**SERVER**

import json

import socket

import threading

import os

def handle\_client(client\_socket):

    request = client\_socket.recv(1024)

    request = request.decode()

    print(f"[\*] Received: {request}")

    dict = []

    dict.append(request)

    # Add the message to the JSON file

    try:

        with open("messages.json", "a") as f:

            json.dump({"Value": dict}, f)

            f.write('\n')

            data = {"messages": []}

    except FileNotFoundError:

        with open("messages.json", "w") as f:

            json.dump({"Value": dict}, f)

            data = {"messages": []}

    client\_socket.send(b"ACK!")

    client\_socket.close()

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

server.bind(("0.0.0.0", 12345))

server.listen(5)

print("[\*] Listening on 0.0.0.0:1234")

while True:

    client, addr = server.accept()

    print(f"[\*] Connection from {addr[0]}:{addr[1]}")

    client\_handler = threading.Thread(target=handle\_client, args=(client,))

    client\_handler.start()

**CLIENT**

import socket

import json

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

client.connect(("127.0.0.1", 12345))

val = 50

try:

    with open("message2.json", "r") as f:

        data = json.load(message2.json)

except FileNotFoundError:

    with open("messages2.json", "w") as f:

        json.dump({"Value": val}, f)

message = input("Enter money to transfer: ")

try:

    with open("message2.json", "r") as f:

        data = json.load(message2.json)

except FileNotFoundError:

    with open("messages2.json", "w") as f:

        json.dump({"Value": val-int(message)}, f)

client.send(message.encode())

response = client.recv(1024)

print(response)

client.close()

**OUTPUT**



