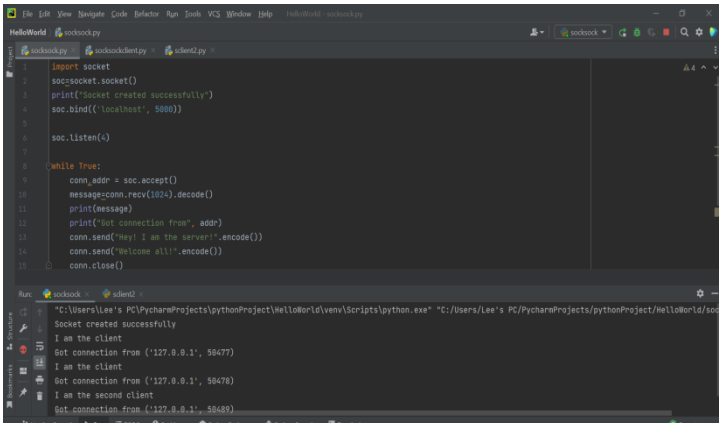
1. If you run a TCP client without the server, there will be an error, because there was never a connection established with the server.

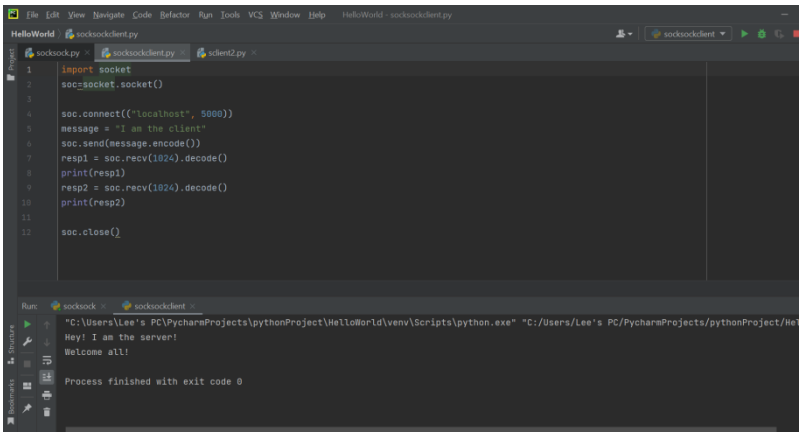
2. Localhost is the computer or hostname that is currently in use to run a program and serves as a virtual server. It is used to develop networked applications because it allows developers to test their applications without a connection to the web to do so.

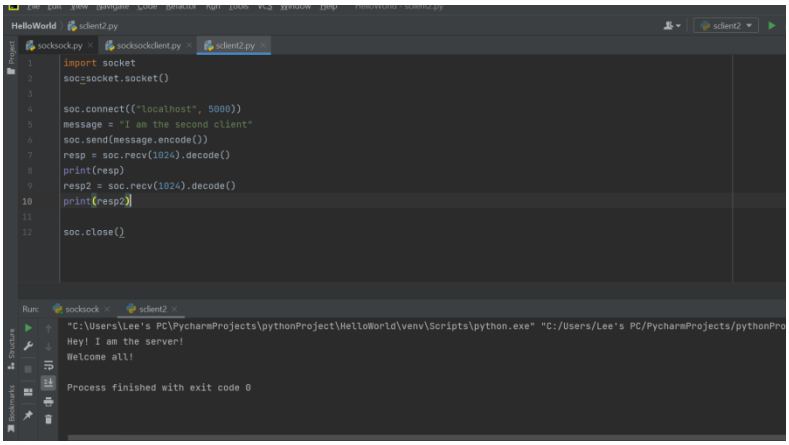
3. The time.sleep() function adds a delay in the execution of a program.

4. a. bind()- connects a port number and IP address to a socket
    a. connect() - connects a TCP-based client socket to a TCP-based server socket.
    b. send()- sends data from one socket to another
    c. recv() - receive messages from another socket
    d. accept() - accepts an incoming connection request from a TCP client.

5






HelloWorld
sclient2.py
sclient2
socksock.py
socksockclient.py
sclient2.py
import socket
soc=socket.socket()
soc.connect(("localhost", 5000))
message = "I am the second client"
soc.send(message.encode())
resp = soc.recv(1024).decode()
print(resp)
resp2 = soc.recv(1024).decode()
print(resp2)
soc.close()
Run:
socksock
sclient2
"C:\Users\Lee's PC\PycharmProjects\pythonProject\HelloWorld\venv\Scripts\python.exe" "C:/Users/Lee's PC/PycharmProjects/pythonPro
Hey! I am the server!
Welcome all!
Process finished with exit code 0