

Assignment No:- 08

Client side

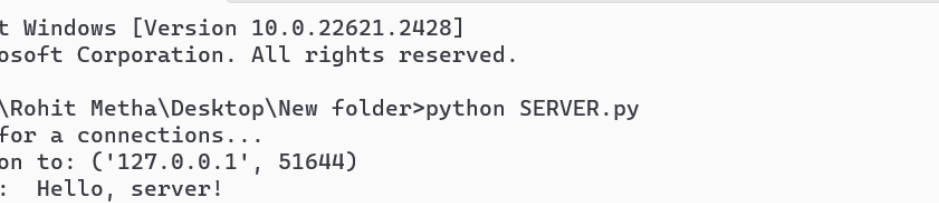
```
import socket
#Create a socket object
client_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)

#Define the server address and port
server_address = ('localhost', 12345)

#Connect to the server
client_socket.connect(server_address)
try:
    #Send data to the server
    message= "Hello, server!"
    client_socket.sendall (message.encode())

    #Receive data from the server data
    #client_socket.recv(1024)
    data = client_socket.recv(1024)
    print("Received: ", data.decode())
finally:
    #Clean up the connection
    client_socket.close()
```

Output:-



```
C:\Windows\System32\cmd.e  x  +  v
Microsoft Windows [Version 10.0.22621.2428]
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C:\Users\Rohit Metha\Desktop\New folder>python SERVER.py
Waiting for a connections...
Connection to: ('127.0.0.1', 51644)
Received: Hello, server!
Traceback (most recent call last):
  File "C:\Users\Rohit Metha\Desktop\New folder\SERVER.py", line 17, in <module>
    client_socket, client_address = server_socket.accept()
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "C:\Program Files\Python311\Lib\socket.py", line 294, in accept
    fd, addr = self._accept()
    ^^^^^^^^^^^^^^^^^^^^^
OSError: [WinError 10038] An operation was attempted on something that is not a socket

C:\Users\Rohit Metha\Desktop\New folder>
```

Server side-

```
import socket
#Create a socket object
server_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)

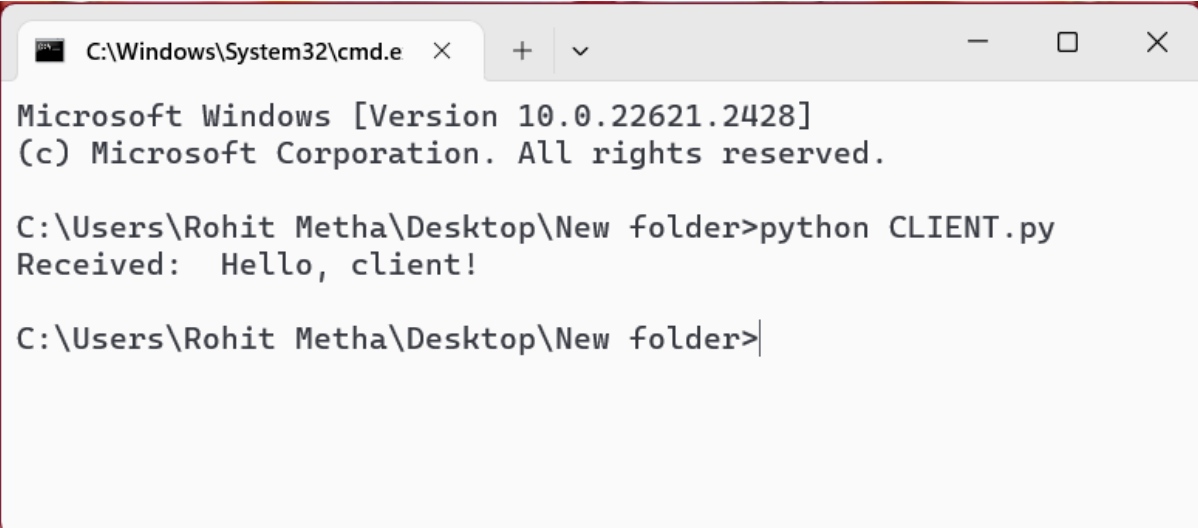
#Define the server address and port
server_address = ('localhost', 12345)

#Bind the socket to the server address
server_socket.bind (server_address)

#Listen for incoming connections (maximum 5 connections in the queue)
server_socket.listen(5)
print("Waiting for a connections...")

while True:
    #Accept a client connection
    client_socket, client_address = server_socket.accept()
    print("Connection to:", client_address)
    try:
        #Receive data from the client
        data = client_socket.recv(1024)
        print("Received: ", data.decode())
        #Send a response back to the client
        response = "Hello, client!"
        client_socket.sendall (response.encode())
    finally:
        server_socket.close()
```

Output:-



```
C:\Windows\System32\cmd.e  x  +  v  -  □  ×

Microsoft Windows [Version 10.0.22621.2428]
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C:\Users\Rohit Metha\Desktop\New folder>python CLIENT.py
Received:  Hello, client!

C:\Users\Rohit Metha\Desktop\New folder>|
```