

TIMESERVER

Introduction :

- A **time server** is a server that reads the actual time from a clock and distributes this information to its clients using a computer network. The time server may be a local network time server or an internet time server.

Program :

server.py

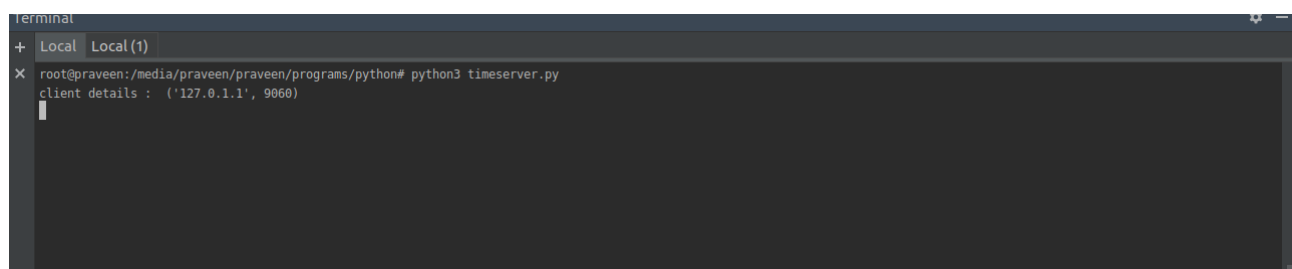
```
import datetime
import datetime
#creating a tcp socket
server_socket = socket.socket(socket.AF_INET,socket.SOCK_STREAM)
#binding the socket to localhost with port no 9060
server_socket.bind((socket.gethostname(),9060))
server_socket.listen(10)
while True:
    (client_socket,address) = server_socket.accept()
    print("client details : ",client_socket.getsockname())
    #sending the current time to client
    client_socket.send(str(datetime.datetime.now()).encode())
```

client.py

```
import socket
client_socket = socket.socket(socket.AF_INET,socket.SOCK_STREAM)
#connect to localhost with port 9060
client_socket.connect((socket.gethostname(),9060))
#print the message sent by the server
print(client_socket.recv(1024).decode())
```

output :

server



```
terminal
+ Local Local (1)
X root@praveen:/media/praveen/praveen/programs/python# python3 timeserver.py
client details : ('127.0.1.1', 9060)
```

TIMESERVER

client

```
Terminal
+ Local Local (1)
x root@praveen:/media/praveen/praveen/programs/python# python3 timeserverclient.py
2018-09-24 17:02:13.399111
root@praveen:/media/praveen/praveen/programs/python#
```