

Qn: Demonstrate TCP connection using socket programming.

Ans:-

client.py

```
from socket import *  
  
server name = '127.0.0.1'  
server port = 12000  
  
client socket = socket(AF_INET, SOCK_STREAM)  
client socket.connect((server name, server port))  
  
sentence = str(input("enter file name: "))  
client socket.send(sentence.encode())  
  
file contents = client socket.recv(1024).decode()  
print('from server:', file contents)  
  
client socket.close()
```

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server.py

```
from socket import *  
  
server_name = "127.0.0.1"  
server_port = 12000  
  
server_socket = socket(AF_INET, SOCK_STREAM)  
server_socket.bind((server_name, server_port))  
server_socket.listen(1)  
  
print("The server is ready to receive")  
while 1:  
    connection_socket, addr = server_socket.accept()  
    sentence = connection_socket.recv(1024).decode()  
    file = open(sentence, "a")  
    l = file.read(1024)  
    connection_socket.send(l.encode())  
    file.close()  
    connection_socket.close()
```

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