## **Programming Assignment 1**

## Server-side output

```
Pranavs-MacBook-Pro:ProgrammingAssignment1 Pranav$ ./server
Socket created successfully
Done with binding
Listening for incoming messages...
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 1
Length 7
Payload Packet1
EndPacketId ffff
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 2
Length 7
Payload Packet2
EndPacketId ffff
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 3
Length 7
Payload Packet3
EndPacketId ffff
```

```
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 4
Length 7
Payload Packet4
EndPacketId ffff
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 5
Length 7
Payload Packet5
EndPacketId ffff
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 6
Length 7
Payload Packet6
EndPacketId ffff
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 9
Length 7
Payload Packet7
EndPacketId ffff
```

```
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 6
Length 7
Payload Packet7
EndPacketId ffff
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 7
Length 7
Payload Packet7
EndPacketId fff0
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 7
Length 8
Payload Packet7
EndPacketId ffff
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 11
Length 7
Payload Packet7
EndPacketId ffff
```

```
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 11
Length 7
Payload Packet7
EndPacketId ffff
----Received message from IP: 127.0.0.1 and port: 64030
StartPacketId ffff
ClientId fa
Data fff1
SegmentNumber 11
Length 7
Payload Packet7
EndPacketId ffff
Pranavs-MacBook-Pro:ProgrammingAssignment1 Pranav$
```

## **Client-Side Output:**

Pranavs-MacBook-Pro:ProgrammingAssignment1 Pranav\$ ./client
Socket created successfully
Sending Packet
Received ACK
StartPacketId ffff
ClientId fa
ACK fff2
SegmentNumber 1
EndPacketId ffff
Sending Packet
Received ACK
StartPacketId ffff
ClientId fa
ACK fff2
SegmentNumber 2
EndPacketId ffff
Sending Packet
Received ACK
StartPacketId ffff
ClientId fa
ACK fff2
SegmentNumber 3
EndPacketId ffff
Sending Packet
Received ACK
StartPacketId ffff
ClientId fa
ACK fff2
SegmentNumber 4
EndPacketId ffff
 Sending Packet

Received ACK StartPacketId ffff ClientId fa ACK fff2 SegmentNumber 5 EndPacketId ffff
Sending Packet
Received ACK StartPacketId ffff ClientId fa ACK fff2 SegmentNumber 6 EndPacketId ffff
Sending Packet
Received Reject with subcode fff4 StartPacketId ffff ClientId fa Reject fff3 Reject subcode fff4 SegmentNumber 9 EndPacketId ffff
Sending Packet
Received Reject with subcode fff7 StartPacketId ffff ClientId fa Reject fff3 Reject subcode fff7 SegmentNumber 6 EndPacketId ffff

Sending Packet -----Received Reject with subcode fff6-----StartPacketId ffff ClientId fa Reject fff3 Reject subcode fff6 SegmentNumber 7 EndPacketId ffff Sending Packet -----Received Reject with subcode fff5-----StartPacketId ffff ClientId fa Reject fff3 Reject subcode fff5 SegmentNumber 7 EndPacketId ffff Sending Packet Error: Server didnot respond Resending the packet Sending Packet Error: Server didnot respond Resending the packet Sending Packet Error: Server does not respond Pranavs-MacBook-Pro:ProgrammingAssignment1 Pranav\$