**Case 1**

Specify a time that is large enough so that a timeout does not occur. = **Between 150-250 ms**

>> Intial Time Out = 200 ms

**Server Output**

Server socket created. Waiting for incoming data...

Client Connected:/127.0.0.1:60610

127.0.0.1 : 60610 - MessageObject [PreviousSystemTime=1354759457903, SystemTime=1354759461515, IntgerSequence=2, OneLineMessage=Message 1, MessageCurrentState=INTIAL] ID:26ba5b4558ca471e4d5e9169764e80d6

Client Connected:/127.0.0.1:60610

127.0.0.1 : 60610 - MessageObject [PreviousSystemTime=1354759461629, SystemTime=1354759466706, IntgerSequence=4, OneLineMessage=Message 2, MessageCurrentState=INTIAL] ID:26ba5b4558ca471e4d5e9169764e80d6

Client Connected:/127.0.0.1:60610

127.0.0.1 : 60610 - MessageObject [PreviousSystemTime=1354759466809, SystemTime=1354759469919, IntgerSequence=6, OneLineMessage=Message 3, MessageCurrentState=INTIAL] ID:26ba5b4558ca471e4d5e9169764e80d6

Client Connected:/127.0.0.1:60610

127.0.0.1 : 60610 - MessageObject [PreviousSystemTime=1354759470022, SystemTime=1354759472305, IntgerSequence=8, OneLineMessage=Message 4, MessageCurrentState=INTIAL] ID:26ba5b4558ca471e4d5e9169764e80d6

**Client Ouput**

Enter message to send :

Message 1

127.0.0.1 : 7777 - MessageObject [PreviousSystemTime=1354759457903, SystemTime=1354759461515, IntgerSequence=3, OneLineMessage=Message 1, MessageCurrentState=ACK]

Enter message to send :

Message 2

127.0.0.1 : 7777 - MessageObject [PreviousSystemTime=1354759461629, SystemTime=1354759466706, IntgerSequence=5, OneLineMessage=Message 2, MessageCurrentState=ACK]

Enter message to send :

Message 3

127.0.0.1 : 7777 - MessageObject [PreviousSystemTime=1354759466809, SystemTime=1354759469919, IntgerSequence=7, OneLineMessage=Message 3, MessageCurrentState=ACK]

Enter message to send :

Message 4

127.0.0.1 : 7777 - MessageObject [PreviousSystemTime=1354759470022, SystemTime=1354759472305, IntgerSequence=9, OneLineMessage=Message 4, MessageCurrentState=ACK]

**Case 2**

Specify a time that is small enough so that a timeout occurs and the message in a) has to be re-sent at least once.

>> Intial Time Out = 50ms

**Server Output**

Server socket created. Waiting for incoming data...

Client Connected:/127.0.0.1:53592

127.0.0.1 : 53592 - MessageObject [PreviousSystemTime=1354759564423, SystemTime=1354759595719, IntgerSequence=2, OneLineMessage=Message 1 Should time out, MessageCurrentState=INTIAL] ID:ab024698da22c5b63e10a11f76b05527

Client Connected:/127.0.0.1:53592

127.0.0.1 : 53592 - MessageObject [PreviousSystemTime=1354759595829, SystemTime=1354759603521, IntgerSequence=4, OneLineMessage=Messgae 2, MessageCurrentState=INTIAL] ID:ab024698da22c5b63e10a11f76b05527

Client Connected:/127.0.0.1:53592

127.0.0.1 : 53592 - MessageObject [PreviousSystemTime=1354759603625, SystemTime=1354759610122, IntgerSequence=6, OneLineMessage=Message 3, MessageCurrentState=INTIAL] ID:ab024698da22c5b63e10a11f76b05527

Client Connected:/127.0.0.1:53592

127.0.0.1 : 53592 - MessageObject [PreviousSystemTime=1354759610225, SystemTime=1354759614913, IntgerSequence=8, OneLineMessage=Message 4, MessageCurrentState=INTIAL] ID:ab024698da22c5b63e10a11f76b05527

**Client Output**

Enter message to send :

Message 1 Should time out

Retry #1 java.net.SocketTimeoutException: Receive timed out Timeout=100

127.0.0.1 : 7777 - MessageObject [PreviousSystemTime=1354759564423, SystemTime=1354759595719, IntgerSequence=3, OneLineMessage=Message 1 Should time out, MessageCurrentState=ACK]

Enter message to send :

Messgae 2

Retry #1 java.net.SocketTimeoutException: Receive timed out Timeout=200

127.0.0.1 : 7777 - MessageObject [PreviousSystemTime=1354759595829, SystemTime=1354759603521, IntgerSequence=5, OneLineMessage=Messgae 2, MessageCurrentState=ACK]

Enter message to send :

Message 3

127.0.0.1 : 7777 - MessageObject [PreviousSystemTime=1354759603625, SystemTime=1354759610122, IntgerSequence=7, OneLineMessage=Message 3, MessageCurrentState=ACK]

Enter message to send :

Message 4

127.0.0.1 : 7777 - MessageObject [PreviousSystemTime=1354759610225, SystemTime=1354759614913, IntgerSequence=9, OneLineMessage=Message 4, MessageCurrentState=ACK]