Network Project CSEN503

**RDT 2.2 Report**

**Team members Info:**

Mohamed Elsaeed Mohamed Elmenshawy 55-12559 T-12

Mahmoud Hany Hebishy 55-18387 T-11

**Roles of each member :**

1. Mohamed : was responsible for the receiver side and handling the corruption of packet received also was responsible for handling some logic in the sender side
2. Mahmoud : was responsible for the sender side and handling the corruption of reply received also was responsible for handling some logic in the receiver side

**pseudo-code for RDT sender and receiver :**

1. Receiver Side :

function rdt\_rcv(rcv\_pkt):

# initialize reply packet

reply\_pkt = {}

# initialize received sequence number

rec\_seq\_num = ''

#Check for packet corruption or unexpected sequence number

If is\_:

corr\_ack\_seq\_detector = '0' if sequence == '1' else '1'

rec\_seq\_num = sequence

reply\_pkt = make\_reply\_pkt(corr\_ack\_seq\_detector, ord(corr\_ack\_seq\_detector))

else:

# Deliver data to the process in the application layer

ReceiverProcess.deliver\_data(rcv\_pkt['data'])

rec\_seq\_num = rcv\_pkt['sequence\_number']

reply\_pkt = make\_reply\_pkt(rec\_seq\_num, ord(rec\_seq\_num))

sequence = '0' if rec\_seq\_num == '1' else '1'

expecting\_seq = rec\_seq\_num

# Print information for debugging

print("Receiver: Expected sequence number:", expecting\_seq)

print("Receiver: Reply with:", reply\_pkt)

# Return the reply packet

return reply\_pkt