**EE 499 – Lab 7**

Question 1) There were three packets exchanged.

Question 2) Packet one – 0x002

Packet two – 0x012

Packet three – 0x010

Question 3) Sequence number: 0 – Acknowledgement number: 0

Sequence number: 0 – Acknowledgement number: 1

Sequence number: 1 – Acknowledgement number: 1

Question 4) There were four packets exchanged.

Question 5) Sequence number: 1 – Acknowledgement number: 1

Sequence number: 1 – Acknowledgement number: 7

Sequence number: 1 – Acknowledgement number: 7

Sequence number: 7 – Acknowledgement number: 7

Question 6) The values from Question 2 indicate the flags that are within the packet. In packet one, the flag Syn is set. In packet two, the flags Acknowledgement and Syn are set. In packet three, the flag Acknowledgement is set.

Question 7) The total amount of bytes required to send my command is 494.

Question 8) There were three packets exchanged.

Flags on the TCP header of these packets:

Packet one – Acknowledgement and Fin

Packet two - Acknowledgement and Fin

Packet three – Acknowledgement

Question 9) Before any command is sent in UDP, there are zero packets exchanged.

Question 10) There are two packets exchanged. In total, there are 96 bytes exchanged. TCP transmits more than 5 times the amount of data than UDP for only exchanging a string that says “hello.” This is not very practical if the data that is being transmitted is trivial like the string I exchanged in this experiment, but it is needed if reliability is required in the data transmission.