**EECE5155: Wireless Sensor Networks and the Internet of Things**

**Computer Laboratory Assignment 1**

**Author (s):**

* Name 1
* (Optional: Name 2)
* Group number on Canvas:

**Date:**

**Task 1**

1. **Experimental setup:**

Describe the specifications of the network and explain the lines in your code that implement each of them. For example,

*In the original class example, the data-rate was 5 Mbps, whereas in this task it needs to be 10 Mbps. This is accomplished by updating the pointToPoint attribute here:*

*pointToPoint.SetDeviceAttribute ("DataRate", StringValue ("10Mbps"));*

You just do these for the different changes that you have had to implement.

1. **Results:**

Here you first provide and then explain your results. For example, you can include a screenshot of the terminal output and a screenshot of Wireshark. Then, you explain them:

*As expected, we first see a packet going from the client (IP address…) to the server (IP address…). The propagation delay time is … . The server then sends back the same packet at …*

Make sure you explain every packet in your Wireshark trace. For example, in Task 2 you are going to see many packets. What are those? Do a bit of research and explain it briefly in your assignment.

1. **Learnt Lessons:**

Summarize in one or two sentences what you have done and what you have learnet. For example,

*In this first task, we have simulated a point to point link and have learnt how to interpret the information presented in Wireshark.*

After this, you repeat the same for Task 2.

At the end, create a zip file with the report, the .cc files and the .pcap files requested. No need for screenshots, unless explicitly requested.