Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Refer to the Warm Up Tutorial.

Upload your answers on this form as a PDF. This is an individual upload.

## Q1) Windows 10 networking.

Do this question before you come to the week 1 lab. Use a Windows laptop or workstation.

Are you using a Home Router, Public Wireless or at Work? \_\_\_\_\_\_\_\_\_\_\_\_

To examine your network interfaces use the ipconfig tool.

Which types are active? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For the active device what are its ip addresses?

IPV4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ IPV6 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is the IPv4 address public or private? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How is this address allocated? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There is a third address for the active device called a physical or MAC address.

Run ipconfig again with a command option (*you need to figure it out by yourself*) to see and note the MAC address.

What is the ipconfig option? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the MAC address? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Now look at your internet gateway.

Type netstat -r

Look at the IPV4 Route table.

What is the gateway IPV4 address? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

How does it compare with your IP V4 address found above? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Now look at UTS on the network.

Type nslookup uts.edu.au.

The results are the DNS and the UTS public IPV4 address starting with 54.

Record DNS. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Record the UTS public IPv4 address \_\_\_\_\_\_\_\_\_\_\_\_

Explain how you can use the device IPv4, gateway and dns to figure out your location.

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Close your windows cmd window by typing exit.

## Submission:

Upload your answers as a PDF on this form to Canvas.