CA169 Assignment 1 Lab Report

Submit these pages onwards.

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MODULE CODE:	CA169
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Declaration

In submitting this project, I declare that the project material, which I now submit, is my own work. Any assistance received by way of borrowing from the work of others has been cited and acknowledged within the work. I make this declaration in the knowledge that a breach of the rules pertaining to project submission may carry serious consequences.

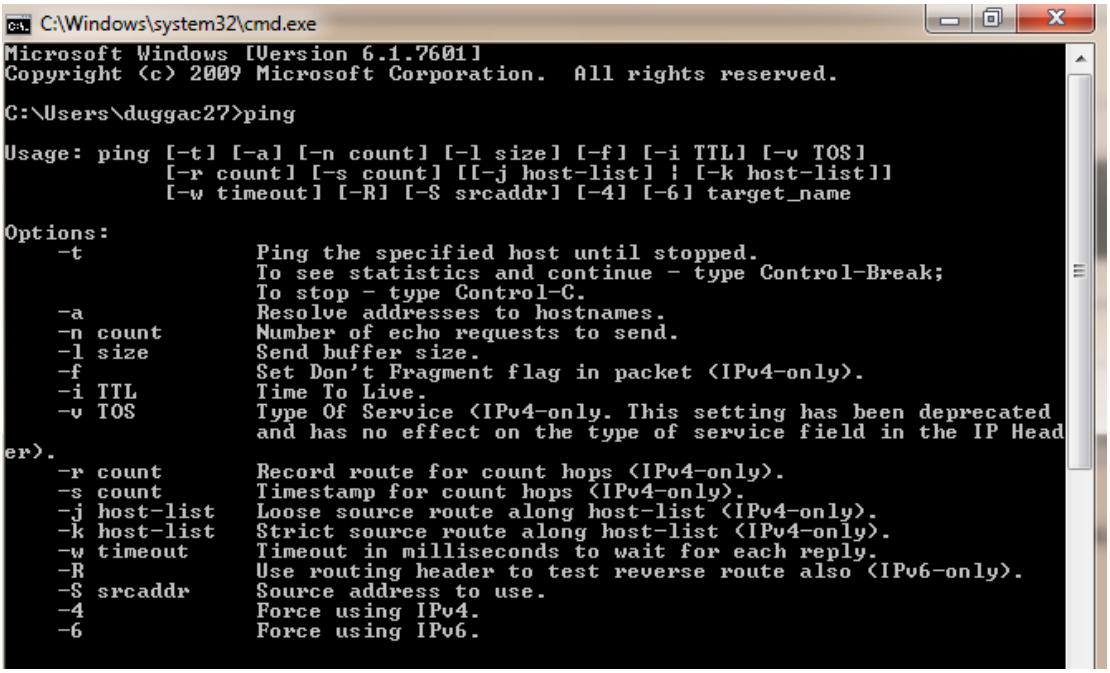
Answer Sheets

Ipconfig exercise

IP address of the machine	136.206.18.157
MAC address	0A-00-27-00-00-0F

Ping exercise 1

What is displayed?

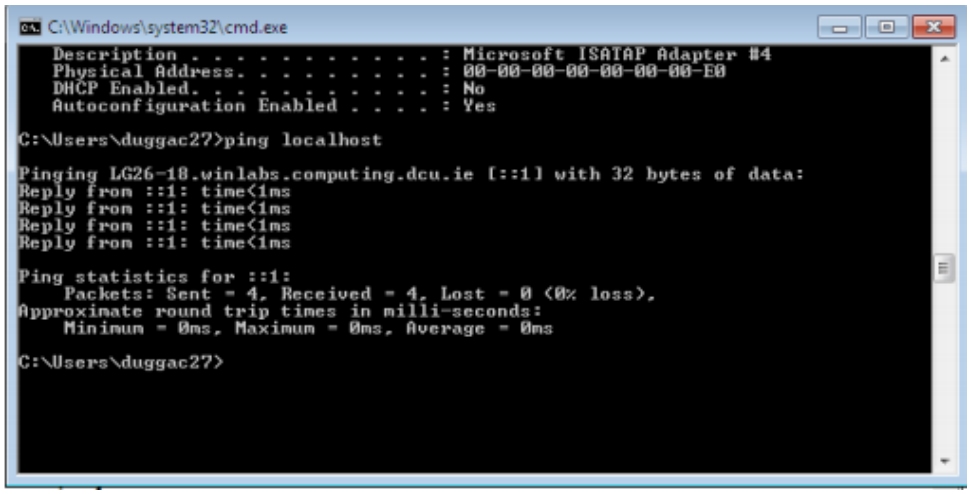


Displayed are the usage and options for the ping command.

Ping exercise 2

Ping localhost

Paste window here.



1. What information is returned?
2. What is the localhost?

Answer 1
The IPv6 is shown and is being pinged at 32 bytes. It shows that we are given a reply from the local host and tells us the amount of time it took for us to receive that reply. Along with this it shows the data for the entire process to occur including the min, max, and average round-trip times, the number of requests sent, the number of replies received and the number of losses.

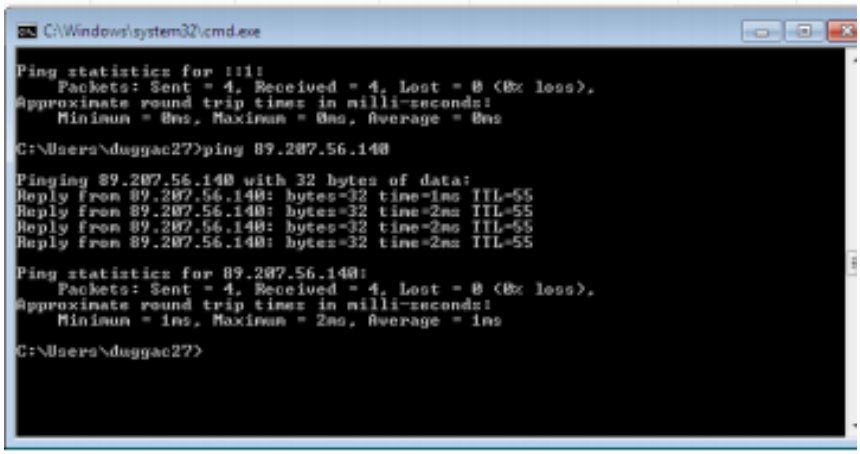
Answer 2
The local host is the name given to the machine that the user is currently on.

Additional marks
89.207.56.140 is www.rte.ie
Owned by: Radio Telefis Eireann
Location: IE (Ireland), 07, Dublin, Dublin

216.58.211.163 is www.google.ie
Owned by: Google LLC 4
Location: 1600 Amphitheatre Parkway, US (United States), CA, California, 94043 Mountain View

To find the websites I simply put the IP into a browser as a link then was given the website. In the case of RTE it was easy but in the case of Google I had to check on cmd to see which Google it was. (google.com or google.ie)
To find additional information I used this website ipinfo.info/html/ip_checker.php.

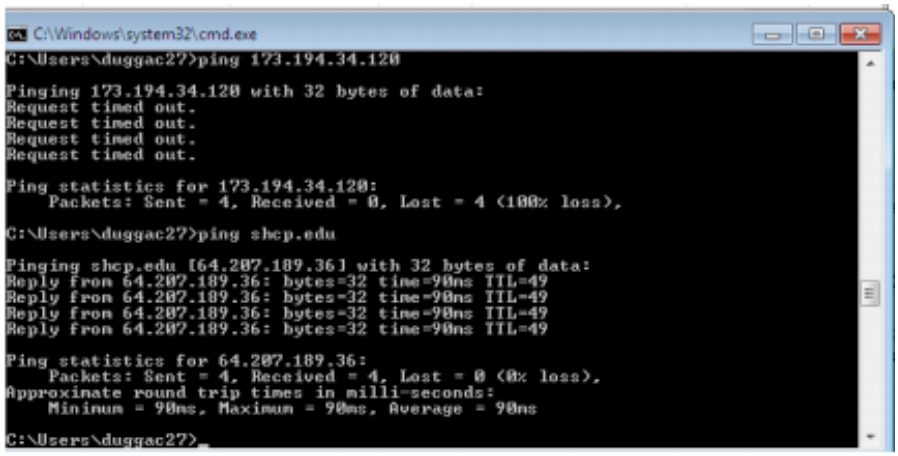
Ping the IP address 89.207.56.140 **or the address** 173.194.34.120
Paste window here



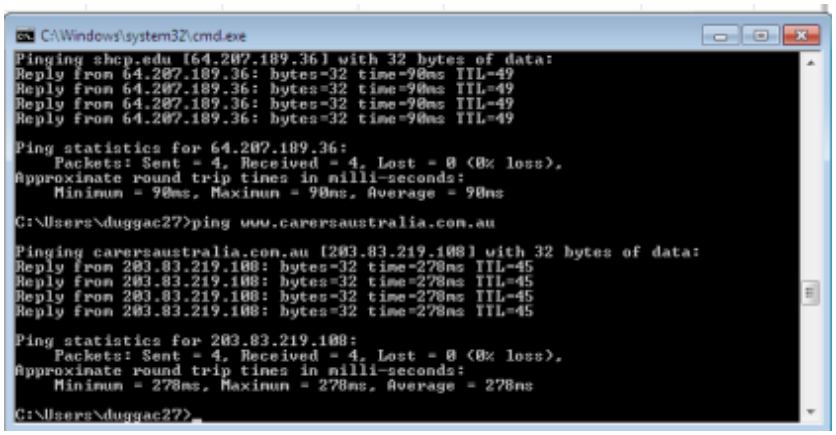
Explain output here, item by item.
The first line says that we are sending a 32 byte request to the IP we are trying to ping. The next 4 lines tell us that we have received a reply from the IP and it has taken 2 milliseconds to make the full round trip and a time to live of 55 meaning that if a packet has been on the network for longer than that discard it. The next 2 lines tell us the number of packets sent, received, and percentage lost. The next two lines give us approximate data for the minimum, maximum, and average round-trip times.

Exercise 3

Paste window 1



Paste window 2



	Website 1	Website 2
Name of the website pinged	Shcp.edu	www.carersaustrali.com.au
What is the IP address returned?	64.207.189.36	203.83.219.108
What is the TTL figure?	49	45
Average round trip time	90	278

Your comments on **administrative information** that you found by searching on the Internet about the websites from experiment 3. Things like, who owns it, phone

Website 1:
Organization: MEDIATEMPLE-100
Address: US (United States), CA, California, 90232 Culver City
Email: dnsadmin@mediatemple.net
Phone: +1-877-578-4000

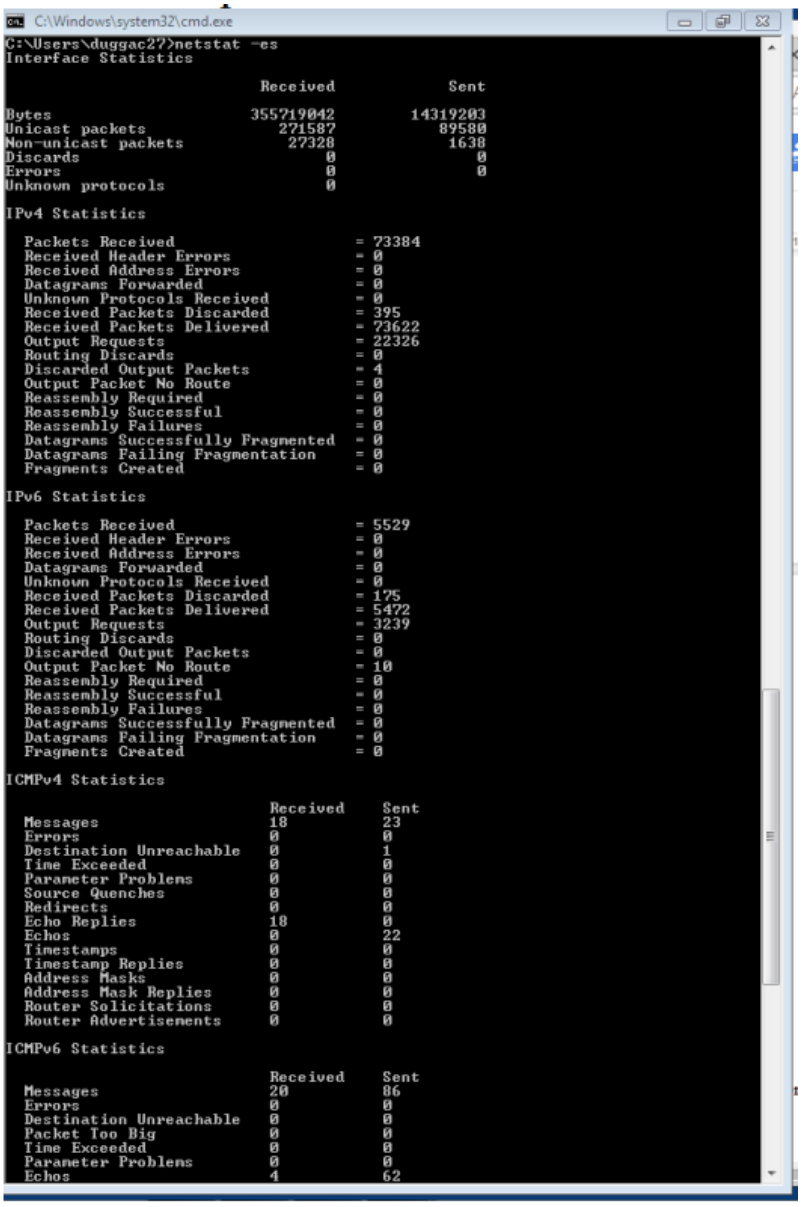
Website 2:
Organization: GoHosting
Address: PO Box 3497 Belconnen ACT 2617, AU
Email: info@gohosting.com.au
Phone: +61-42377381

numbers, email addresses, registered addresses etc, anything at all that tells us about the website and its administration.

Exercise 4: Netstat exercise

Number of packets received by workstation:

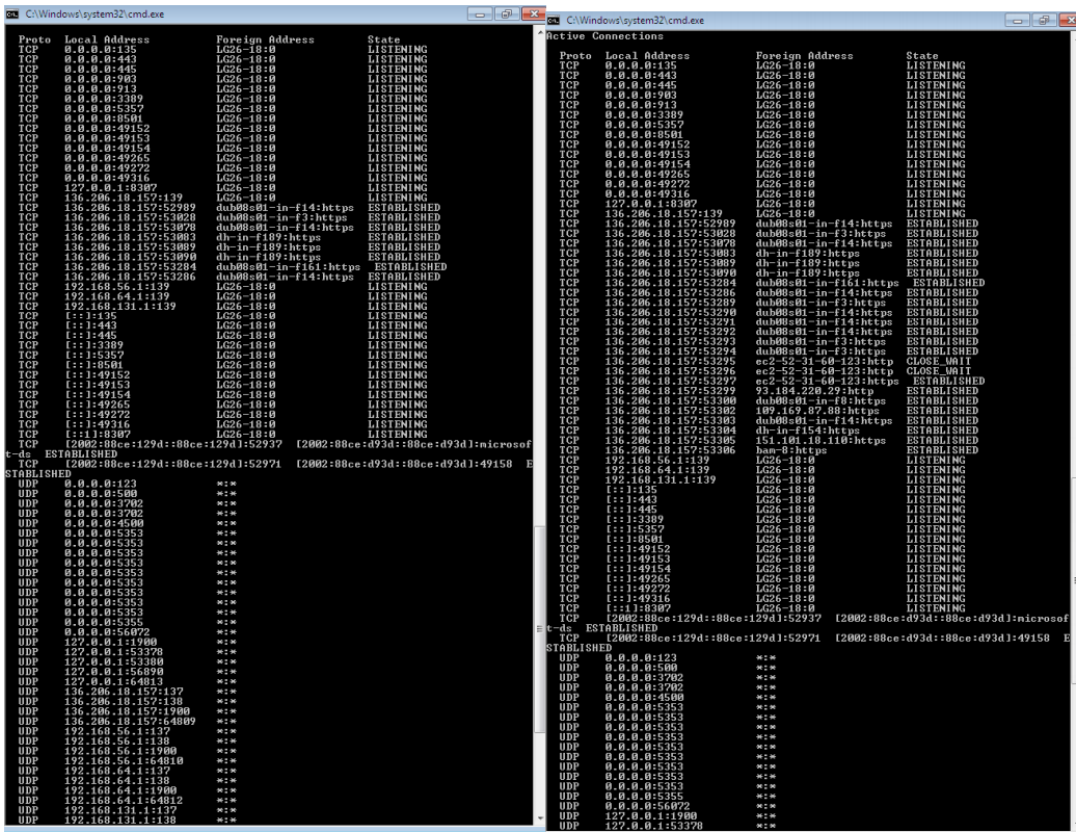
Number of packets received: 73384



ICMP packets explained:

ICMP packets are packets of pieces of information data like error messages. The ICMP packets are sent to other devices to check if we can reach them through the ping function. Using the ping function this computer has sent 23 ICMP packets and received 18 echo packets back from addresses it was able to reach.

Discuss the connections opened by visiting the DCU website here.
Also, grab the window, showing connections opened as a result of visiting the DCU website.



Netstat –r explained

The nestat -r call shows the routing table which is a set of addresses for various other networks that can be reached through that machine. It will display the fastest route to get to another network from the one you are currently on.