SWEN90002 - Engineering for Internet Applications

Lab Week 1

Group 5

Oyemike Ebinum - 526250

Venkatesh Yeluri - 655009

- 1. Drawbacks of using network address translation, as opposed to using a unique IP address.
 - One of the main issues with using NAT is that some protocols that have an IP address as part of their package might not work in a network with NAT e.g FTP, X windowing systems, IPSEC.
 - In some situations there is a need for a remote system to initiate a connection with a client being a NAT connection, this is a bit harder to do with NAT as opposed to having a unique IP address.
 - In order to faciliate some of the connections not possible via NAT, workarounds need to be put in place which can cause performance degradation.
- 2. See code files
- 3. Java Refresher
- 4. What is the purpose of the timeout argument? *Time out argument is to set the maximum length the function should try reaching the address before giving up.* -If an IOException is thrown by isReachable, what would be an appropriate action to take and why?
- 5. You should catch the error using a try/catch and print out or send back a message to inform the user/client that the hostname/address they entered cannot be reached. You should do this because the program might need to contact the server down the line.
- 6. Outputs for inputs "localhost, www.unimelb.edu.au, yahoo.com, google.com"
 - * Found: localhost=127.0.0.1 and is reachable
 - * Found: www.unimelb.edu.au=128.250.148.40 and is not reachable
 - * Found: yahoo.com=98.139.183.24 and is not reachable
 - * Found: google.com=220.244.223.88 and is not reachable
- 7. div tag is used as a page divider for html web pages, it is used to create sections or

blocks of content on a web page. A span tag is used to group a section of text. Key difference between both are divs create blocks of content while a span is an inline element, also spans can be found in divs but divs should not be nested in spans