

Student Name : _____

Group : _____

Date : _____

LAB 4: ANALZING NETWORK DATA LOG

You are provided with the data file, in .csv format, in the working directory. Write the program to extract the following informations.

EXERCISE 4A: TOP TALKERS AND LISTENERS

One of the most commonly used function in analyzing data log is finding out the IP address of the hosts that send out large amount of packet and hosts that receive large number of packets, usually know as TOP TALKERS and LISTENERS. Based on the IP address we can obtained the organization who owns the IP address.

List the TOP 5 TALKERS

Rank	IP address	# of packets	Organisation
1			
2			
3			
4			
5			

TOP 5 LISTENERS

Rank	IP address	# of packets	Organisation
1			
2			
3			
4			
5			

EXERCISE 4B: TRANSPORT PROTOCOL

Using the IP protocol type attribute, determine the percentage of TCP and UDP protocol

	Header value	Transport layer protocol	# of packets
1			
2			
3			

EXERCISE 4C: APPLICATIONS PROTOCOL

Using the Destination IP port number determine the most frequently used application protocol.

Rank	Destination IP port number	# of packets	Service
1			
2			
3			
4			
5			

EXERCISE 4D: TRAFFIC INTENSITY

The traffic intensity is an important parameter that a network engineer needs to monitor closely to determine if there is congestion. You would use the IP packet size to calculate the average traffic over different time duration.

Total Traffic(MB)	
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EXERCISE 4E: ADDITIONAL ANALYSIS (OPTIONAL)

Please described additional/optional analysis of the data and how it is useful.

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EXERCISE 4F: SOFTWARE CODE

Please attach a hardcopy of your code with the above answers.