Information Assurance and Security (IT352) Lab Program -2

Consider the given hex-dump file as input file during run time of the program and assume that it consists of more than one packets that are captured using packet sniffer. Further, assume that each hex dump represents one complete Ethernet frame. Consider only one hex dump at a time to demonstrate/simulate/show the Packet Filter Firewall operation. First, extract and display all the fields of Ethernet header, IP header and Transport Layer header on the terminal. Further, store the same onto "output.txt" file. Read the appropriate field that decides whether the payload of the packet is TCP/UDP segment. Display the same on the terminal and also store the same onto the output file at the end of previous output in the same output file (output.txt). Use the applicable extracted values and the given ACL file to demonstrate the operation of the Packet Filter Firewall. Display the obtained output on terminal and also store the same output at the end of the output file (output.txt).

Sample Text Case: See the attached hex-dump file and ACL file

Submit program file, screenshots and output files (output.txt) to the Email ID which will be circulated with the text cases file before the deadline.

Email subject should be IAS(IT352)-Lab-Program-2-Related-Files

File name of the program	:	RegisterNo_IT352_P2
		(P2 indicates Lab Program Number-2)
File name of the screenshot	:	RegisterNo_IT352_P2_S1

(S1 indicates screenshot for the first test case, similarly, for other test cases S2, S3, S4, S5)

File name of the Output File : RegisterNo_IT352_P2_Output_TC1.txt

(TC1 indicates output for the first test case, similarly, for other test cases TC2, TC3, TC4, TC55)

Date of Laboratory	:	24th January 2020, Friday
Deadline of Submission	:	24th January 2020 (on or before 3:00PM)

Note:

- Clarify the doubt(s) (if any) at least one day before commencement of the laboratory.
- No/Zero marks for incomplete submission/late submission/absent for the lab/incomplete program.