

Report for Lab 3-1: UDP

Name: Akshay Rathod	Student ID: 90	Date: 21-03-2023
----------------------------	-----------------------	-------------------------

1	a. Source port number: 53	b. Destination port number: 55574
	c. Total length of user datagram :- 70	d. Length of data :- 50
	e. Is the packet from client or server? server	f. Application layer protocol:- Domain Name System(DNS)
	g. Is checksum calculated? Yes	
2	Are answer in number 1 are verified by the information in the detail pane lane? Yes	
3	<p>Source and destination IP addresses in the query message: source :- 192.108.101.128 Destination:- 192.108.101.2</p> <p>Source and destination IP addresses in the response message: source:- 192.108.101.2 Destination :- 192.108.101.128</p> <p>Relation between IP addresses: The IP addresses in the query and response messages are related in that the response message is sent from the same DNS server that received the query message, with the source and destination IP addresses swapped between the query and response messages.</p>	
4	<p>Source and destination port number in the query message: Source :- 50617 Destination:- 53</p> <p>Source and destination port number in the response message: Source :- 53 Destination:- 50617</p> <p>Relation between port numbers: The port numbers in the query and response messages are related in that the response message is sent to the same port number that was used by the client to send the query message, with the source and destination port numbers swapped between the query and response messages.</p> <p>Which port number is well-known? 53</p>	
5	<p>The length of the first UDP packet: 407 bytes</p> <p>How many bytes of payload are carried by the first UDP packet? 399 bytes</p>	
6	<p>Number of bytes in the DNS message:</p> <p>Does the count agree with the answer to question 5?</p>	
7	<p>Is the checksum calculated for the first UDP packet? Yes</p> <p>Value of the checksum: 0x4c0f</p>	