## Wireshark Lab 2: UDP

Group Details: Bikramjit Narwal (1005242300), Chao Glen Xu (1004274634)

## Mark:

	Question	Answer				
1	Select one packet. From this packet, determine how many fields there are in the UDP header. Name these fields.	There are 4 fields: Source port, destination port, length, and checksum.  V User Datagram Protocol, Src Port: 889, Dst Port: 889 Source Port: 889 Destination Port: 889 Length: 1428 Checksum: 0x2fac [unverified] [Checksum Status: Unverified] [Stream index: 0]				
2	From the packet content field, determine the length (in bytes) of each of the UDP header fields.	2 bytes  > Internet Protocol Version 4, Src: 192.168.2.27, Dst: 192.168.2.1  V User Datagram Protocol, Src Port: 50908, Dst Port: 53  Source Port: 50908  Destination Port: 53  Length: 43  Checksum: 0x85a9 [unverified]  [Checksum Status: Unverified]  [Stream index: 1]  > [Timestamps]  <				

3	The value in the Length field is the length of what? Verify your claim with your captured UDP packet.	Length is 43. This length is the sum of the 8 header bytes (shown at the bottom of the screenshot). In addition, it is also the sum of the remaining data bytes encapsulated inside the packet.  Wireshark-Packet 6-Wi-Fi — X  Internet Protocol Version 4, Src: 192.168.2.27, Dst: 192.168.2.1  Viser Datagram Protocol, Src Port: 50908, Dst Port: 53  Source Port: 50908  Destination Port: 53  Length: 43  Checksum: 0x85a9 [unverified]  [Checksum Status: Unverified]  [Stream index: 1]  [Stream index: 1]  [Timestamps]  Viant Diagram of the 8 header bytes (shown at the sum of th
4	What is the maximum number of bytes that can be included in a UDP payload.	The length field is 2-byte long, therefore the max length is $2^16 - 1$ bytes. We must dis-include the header (8 bytes), so $2^16 - 1 - 8 = 65527$ bytes.
5	What is the largest possible source port number?	Largest possible port number is $2^16 - 1 = 65535$ .

