**Report for Lab 19-1: IP**

|  |  |  |
| --- | --- | --- |
| **Name: Tanveen Kaur** | **Student ID: 1014603** | **Date: 04/02/2017** |

|  |  |  |
| --- | --- | --- |
| 1 | a. IP version: IPv4 i.e IP Version 4. | b. Header length  Number of bytes in the header: 20 |
| c. Service type: Differentiated Services | d. Total length: 40 |
| e. Identification: 52544 | f. Flags: 0x00 *(3 bits, ip.flags, 1 Byte)* |
| g. Fragmentation offset: 0 | h. TTL: 49 |
| i. Upper layer protocol: TCP (6) | j. Checksum: 0xe7cb |
| k. Source IP address: 74.125.200.154 | l. Destination IP address:192.168.1.4 |
| 2 | Are answers to question 1 verified by the information in the packet detail pane? YES | |
| 3 | If the checksum in the packet detail pane is marked correct, can we conclude that the IP payload is not corrupted?  Explain. Yes, check sum is used to identify whether is there any error occurred. So if the checksum is marked as correct then there will be no error in IP Payload. | |
| 4 | Is the datagram fragmented?  Explain. NO, Since the More Fragments bit is 0. | |
| 5 | Does source or destination address belong to one of the special addresses?  If yes which one? Yes, Private address for source Address belongs to Special Addresses. | |
| 6 | Number of bytes of data in the IP payload: IP Header = 20 Bytes and Total Length is 40 Bytes, which gives us 20 Bytes in the IP payload. | |