Tutorial 7

1. An IP datagram of size 1000 bytes arrives at a router. The router has to forward this packet on a link whose MTU (maximum transmission unit) is 100 bytes. Assume that the size of the IP header is 20 bytes. Find the number of fragments that the IP datagram will be divided into for transmission.
2. Draw the frame format for IPv4 header and briefly explain what each field stands for.
3. Explain the working of ARP protocol.
4. Determine the practical purpose/(s) of implementing Network Address Translation and discuss the same.
5. Find and mention the error from given IPv4 addresses:
   a. 120.60.35.080
   b. 321.54.7.8.50
   c. 85.35.301.17
   d. 11100010.23.14.67
6. In classless addressing, if IP address in a given block is - 201.54.105.16/26
   a. find the first address
   b. find the last address