Semester 5th | Practical Assignment | Computer Networks (2101CS501)

Date: 11/09/2024

Study of IP Addressing and sub-netting.

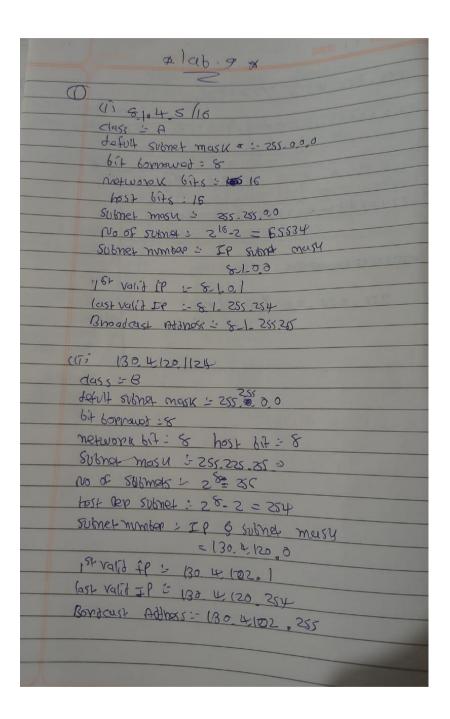
Practical Assignment #09:

- 1. Find default subnet marks, network bits, host bits, hosts per subnet, no of subnets, subnet number, 1st valid IP address, last valid IP address, and broadcast address.
 - i. 8.1.4.5/16
 - ii. 130.4.102.1/24
 - 199.1.1.1/24 iii.
 - 130.4.102.1/22 iv.
 - 199.1.1.100/27 ٧.



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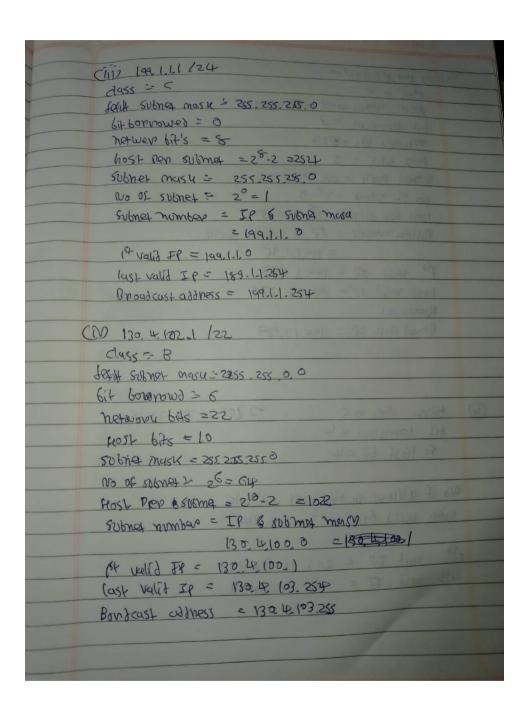
Date: 11/09/2024





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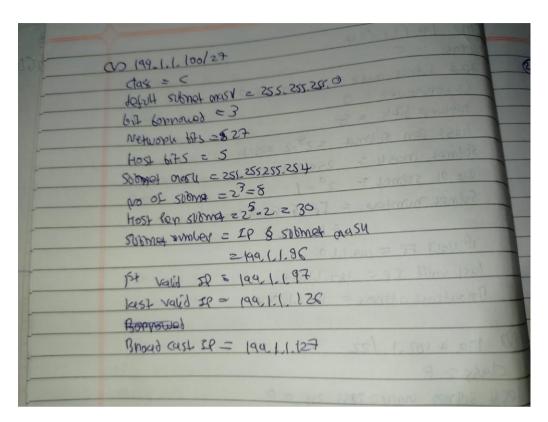
Date: 11/09/2024





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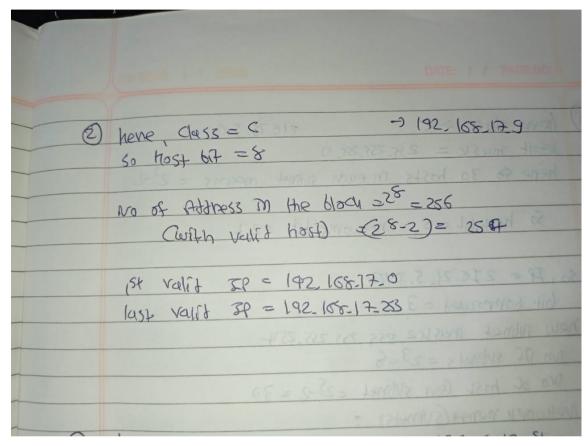
Date: 11/09/2024



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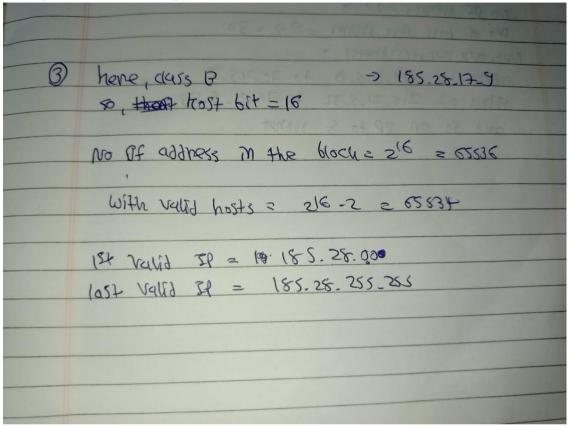
2. A host in a class C network has been assigned an IP address 192.168.17.9. Find the number of addresses in the block, the first address, and the last address.



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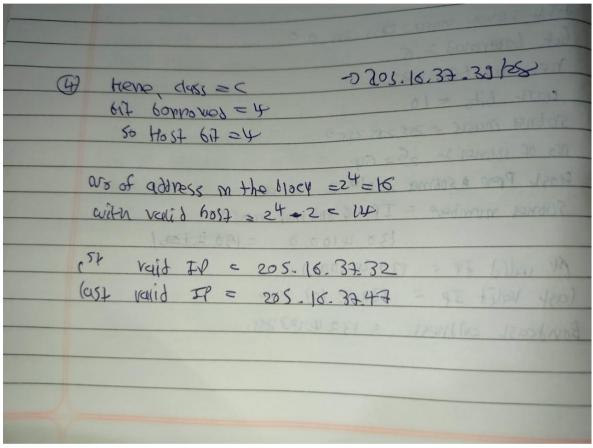
3. An address in a block is given as 185.28.17.9. Find the number of addresses in the block, the first address, and the last address.



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4. A block of addresses is granted to a small organization. We know that one of the addresses is 205.16.37.39/28. What is the first address, last address, number of addresses in a block.

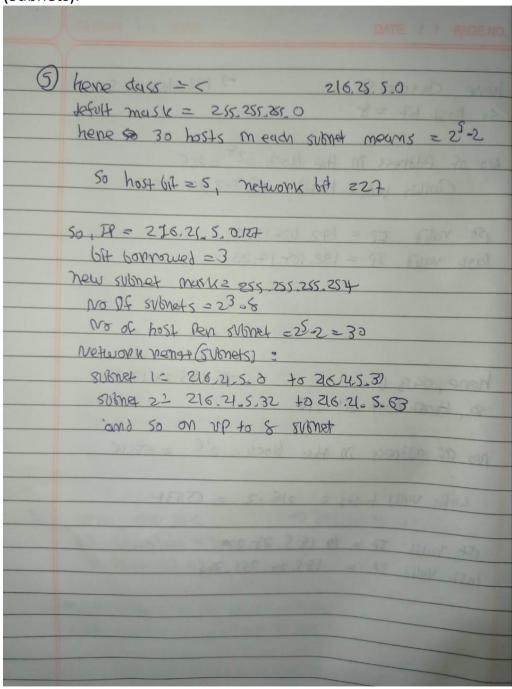




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5. Subnet the IP address 216.21.5.0 into 30 hosts in each subnet. Find Class, Default Mask, Bit Borrowed, New subnet mask, No. of Hosts & Subnet, Network Ranges (Subnets).





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6. Subnet the IP address 192.10.20.0 into 52 hosts in each subnet. Find Class, Default Mask, Bit Borrowed, New subnet mask, No. of Hosts & Subnet, Network Ranges (Subnets).

