



COMPUTER COMMUNICATION NETWORKS

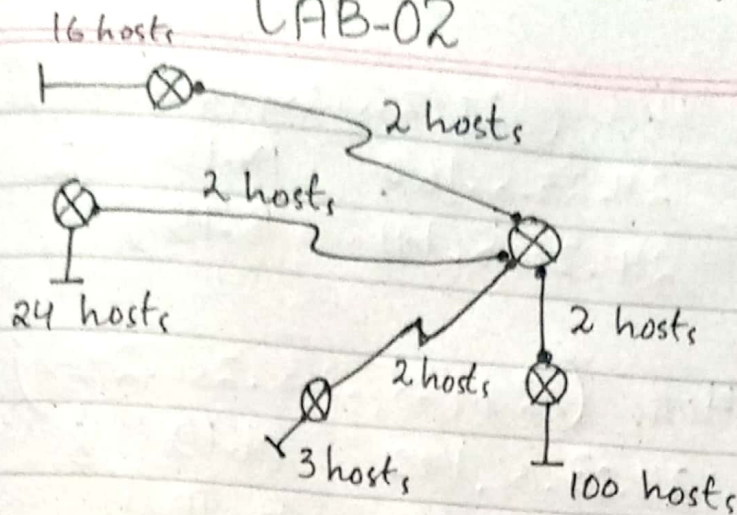
CT-376

LAB NO 2

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Roll No :	DT-22301
Batch :	2022 -2026
Semester :	spring 2025
Department :	CSIT
Specialization :	Data Science

Name: Syed Ahmed Ali
Roll no: DT-22301

LAB-02



Available subnet mask: 24.23.5.0/24

	Required Hosts	Needed IPs	Subnet Mask
1)	100	$2^7 = 128$	/25 (255.255.255.128)
2)	24	$2^5 = 32$	/27 (255.255.255.224)
3)	16	$2^5 = 32$	/27 (255.255.255.224)
4)	3	$2^3 = 8$	/29 (255.255.255.248)
5)	2	$2^2 = 4$	/30 (255.255.255.252)
6)	2	$2^2 = 4$	/30 (255.255.255.252)
7)	2	$2^2 = 4$	/30 (255.255.255.252)
8)	2	$2^2 = 4$	/30 (255.255.255.252)

1) 100 Hosts (/25 (255.255.255.128))

24.23.5.0 N.ID } 128
24.23.5.127 B.ID }

2) 24 Hosts (/27 (255.255.255.224))

24.23.5.128 N.ID } 32
24.23.5.128 B.ID }

3) 16 Hosts (/27 (255.255.255.224))
24.23.5.160 N.ID } 32
24.23.5.191 B.ID }

4) 3 Hosts (/29 (255.255.255.248))
24.23.5.192 N.ID } 8
24.23.5.199 B.ID }

5) 2 Hosts (/30 (255.255.255.252))
24.23.5.200 N.ID } 4
24.23.5.203 B.ID }

6) 2 Hosts (/30 (255.255.255.252))
24.23.5.204 N.ID } 4
24.23.5.207 B.ID }

7) 2 Hosts (/30 (255.255.255.252))
24.23.5.208 N.ID } 4
24.23.5.211 B.ID }

8) 2 Hosts (/30 (255.255.255.252))
24.23.5.212 N.ID } 4
24.23.5.215 B.ID }