MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY

BHOPAL

NAME: CHITTIPROLU BHAVITHA

SECTION: 1

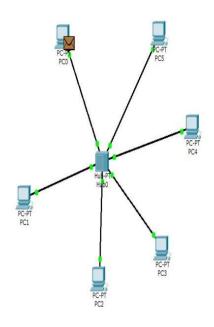**SCHOLAR NO: 201112081**
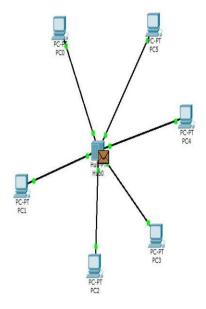
DEPARTMENT: CSE
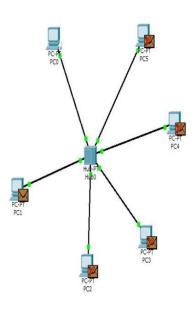
YEAR: 3RD (6TH SEM)
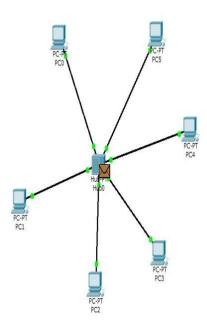
SUBJECT: COMPUTER NETWORKS
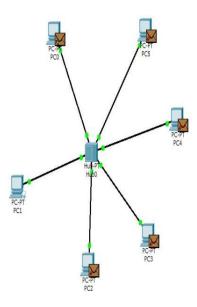
ASSIGNMENT NO: 1

QUESTION: SET UP A LAN USING HUB

WORKING OF HUB:

1)Take one hub and 6 end devices.Connect these 6 end devices to 6 ports of hub.As hub and end device(computer) are different devices,I used Ethernet straight through cable to connect them.

2)Set IP address for each device in IP configuration of that device.

3)When point at each device turns green,then the devices are ready for communication.

4)Check whether two devices are able to communicate or not by using ping command in command prompt of any computer.

Command: ping 10.10.10.2 (I pinged from computer whose IP address is 10.10.10.1)

Command to find ip address: ipconfig

Command to find physical address: ipconfig /all

5)Take one packet and place on sender computer and place the same on destination computer. When we go to simulation mode, by going to run time environment. First the packet is sent from sender computer to port,the packet is then copied to all the ports of hub.The packets are then transferred to all the computers except the sender computer. Then green tick is shown on the destination computer and red wrong is shown on remaining computers.Then acknowledgment is sent from destination computer to its port. Then hub sends acknowledgment to all computers.Only sender packet accepts acknowledgment(green tick) and remaining computers reject it(red wrong mark).