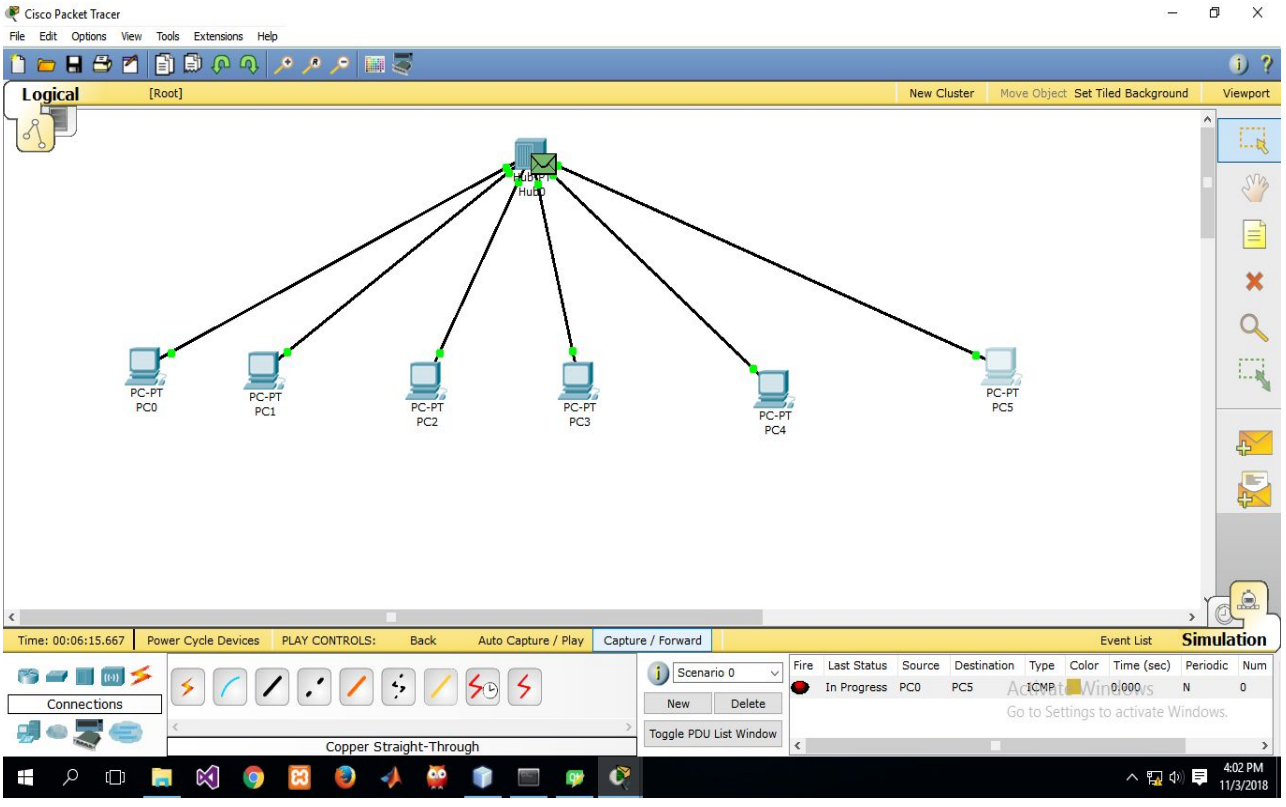
Experiment Name : Design and implementation of a local area network (LAN) With a hub and six computers.

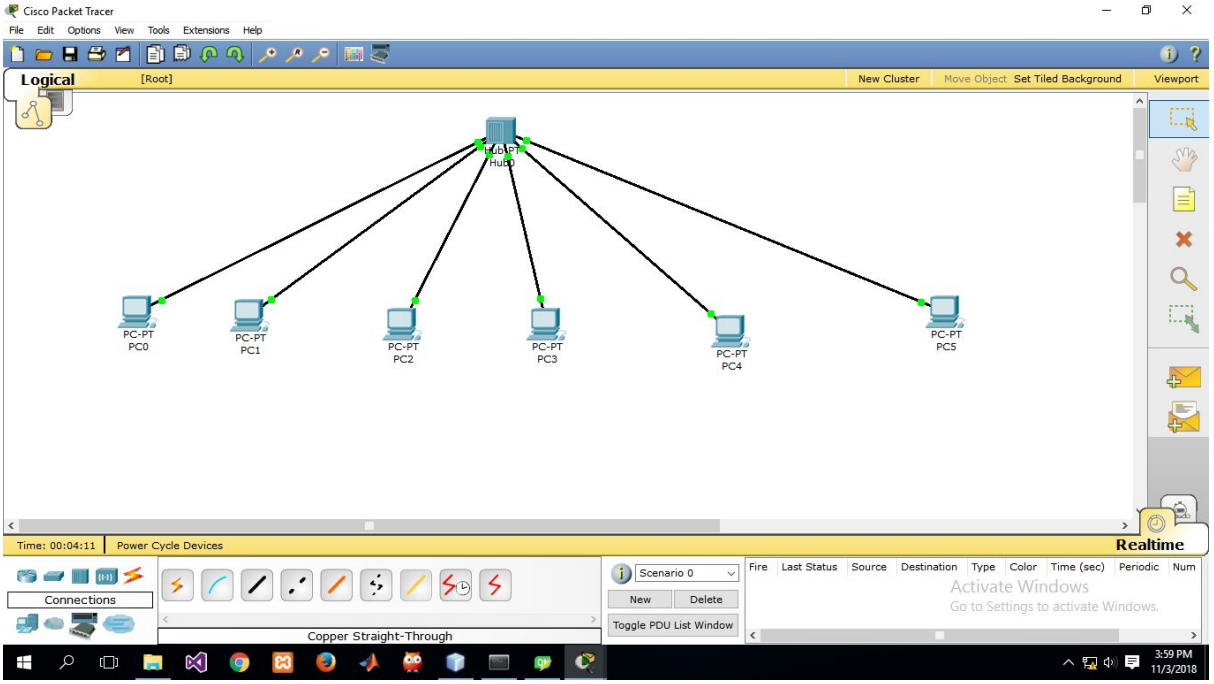
Experiment No : 02

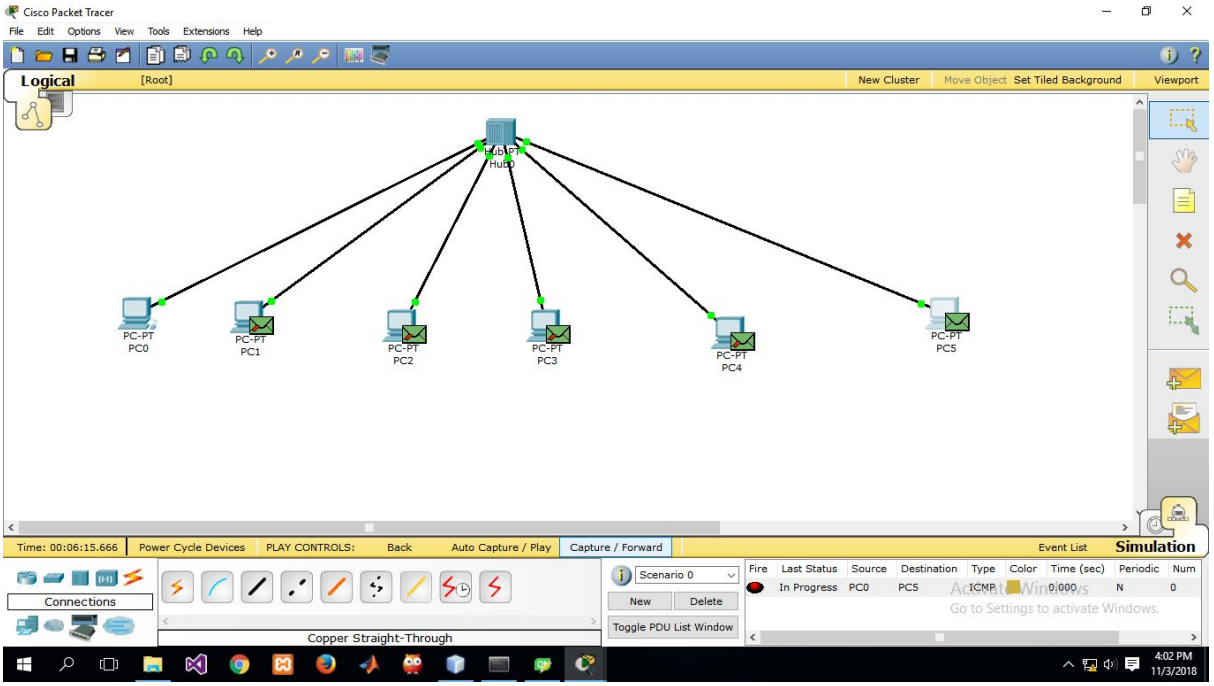
Introduction :Local area network is a small area network. We use this kind of network for personal uses.And all computers are Connected to each other with wires.

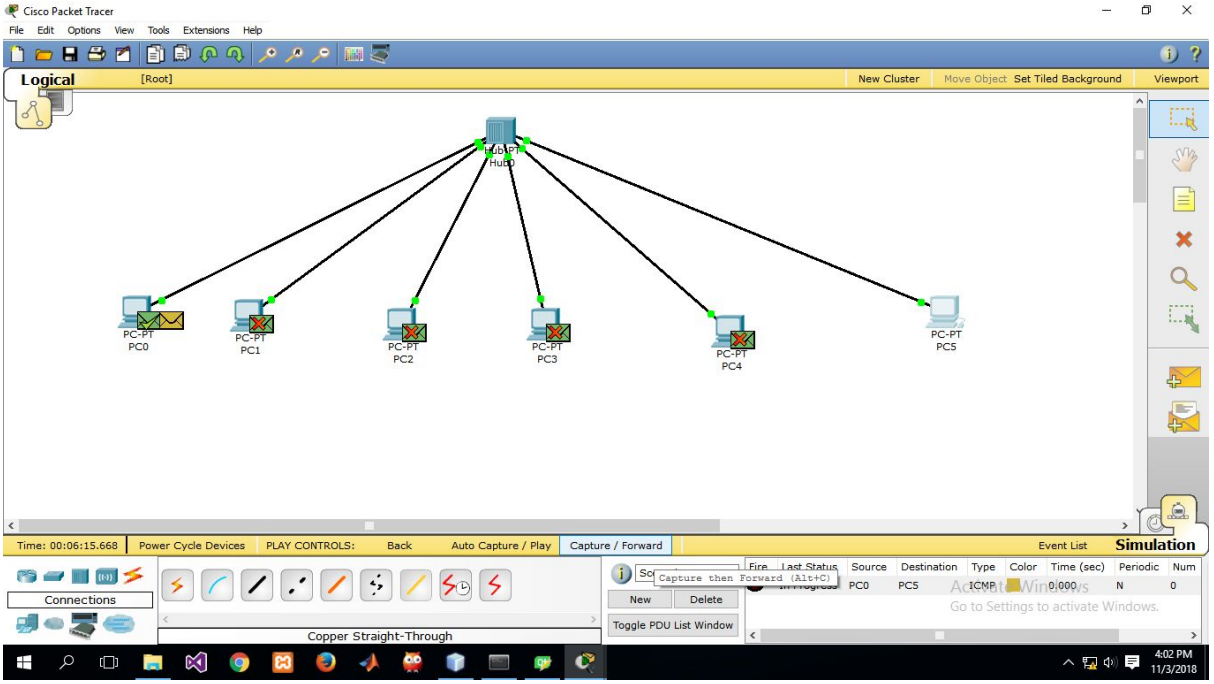
Objective :1.To create a local area network.
2.To send a message to its destination.
3.To receive a message.
4.To set IP address.
5.To find IP address of each computer.

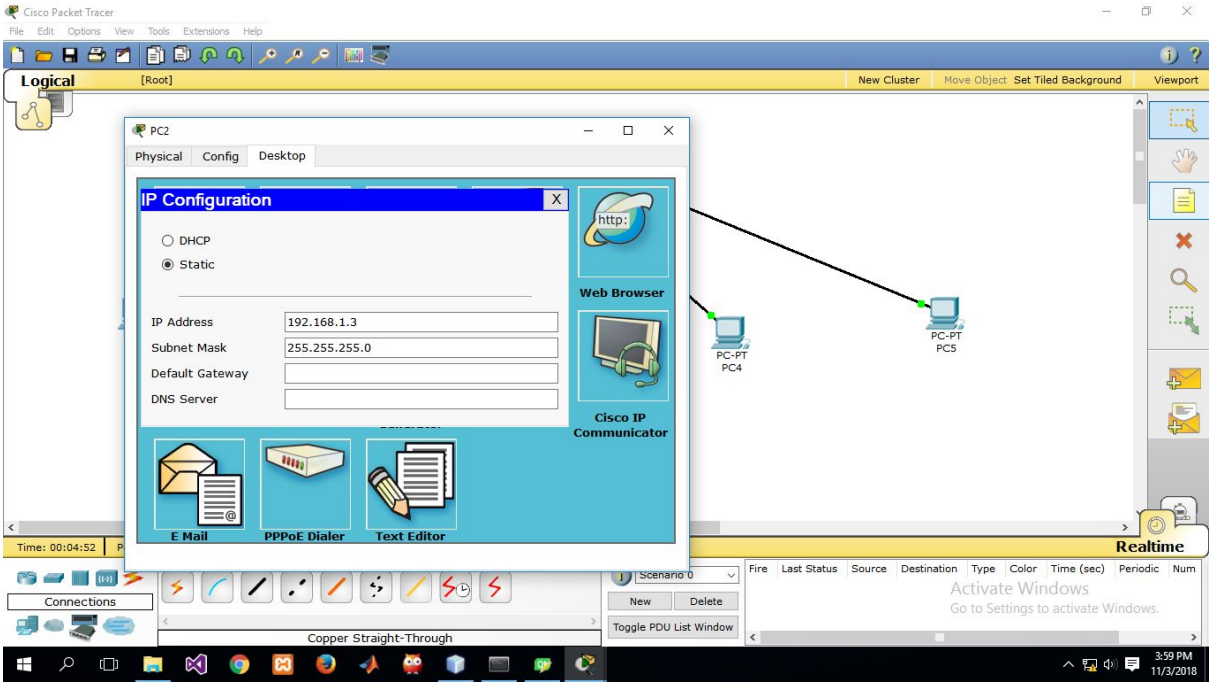
Diagram :

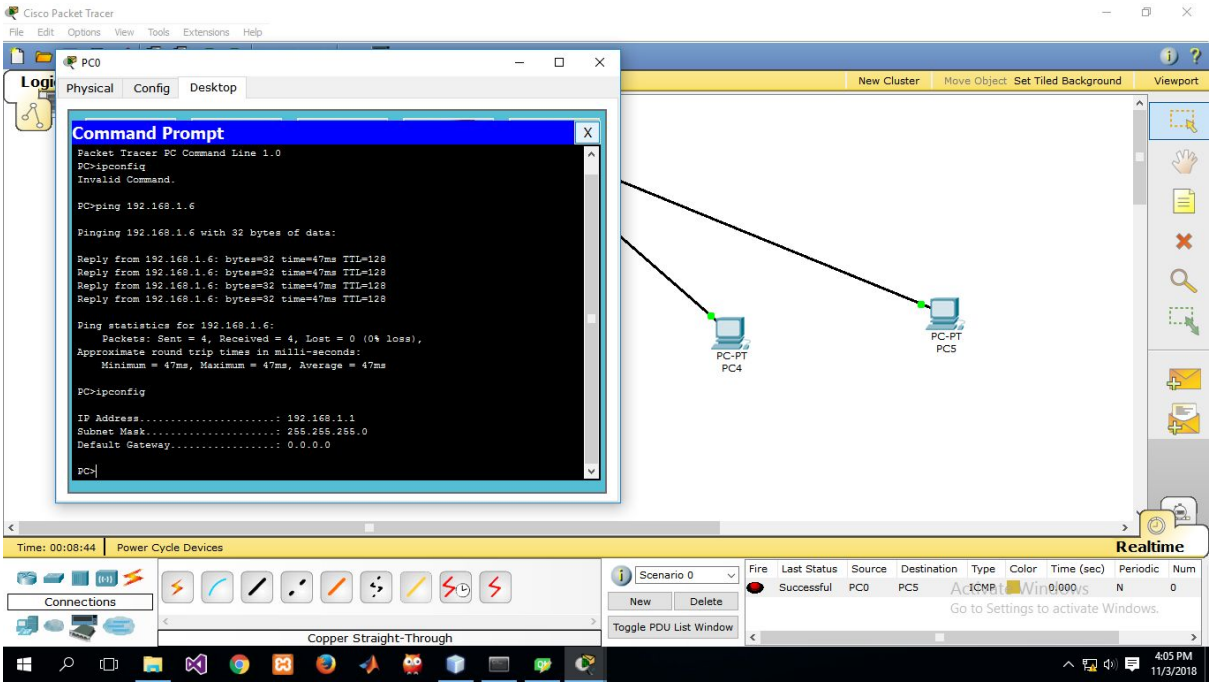



Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Hub-PT
Hub0
PC-PT
PC0
PC1
PC2
PC3
PC4
PC5
Time: 00:04:11
Power Cycle Devices
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time (sec)
Periodic
Num
Activate Windows
Go to Settings to activate Windows.
3:59 PM
11/3/2018


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Hub-PT
Hub0
PC-PT
PC0
PC1
PC2
PC3
PC4
PC5
Time: 00:06:15.666
Power Cycle Devices
PLAY CONTROLS:
Back
Auto Capture / Play
Capture / Forward
Event List
Simulation
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time (sec)
Periodic
Num
In Progress
PC0
PC5
ICMP
0.000
N
0
Activate Windows
Go to Settings to activate Windows.
4:02 PM
11/3/2018


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Hub-PT
Hub0
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3
PC-PT
PC4
PC-PT
PC5
Time: 00:06:15.668
Power Cycle Devices
PLAY CONTROLS:
Back
Auto Capture / Play
Capture / Forward
Event List
Simulation
Capture then Forward (Alt+C)
Connections
Copper Straight-Through
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time (sec)
Periodic
Num
PC0
PC5
ICMP
0.000
N
0
Activate Windows
Go to Settings to activate Windows.
4:02 PM
11/3/2018


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
PC2
Physical
Config
Desktop
IP Configuration
X
DHCP
Static
IP Address
192.168.1.3
Subnet Mask
255.255.255.0
Default Gateway
DNS Server
Web Browser
Cisco IP Communicator
E Mail
PPPoE Dialer
Text Editor
PC-PT
PC4
PC-PT
PC5
Time: 00:04:52
Realtime
Connections
Copper Straight-Through
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time (sec)
Periodic
Num
Activate Windows
Go to Settings to activate Windows.
3:59 PM
11/3/2018



Equipment : Switch , Hub , Wire , PC .

Command :1.At first we need to take a hub,six computers and six wires.
2.Establish the connection between hub and computers.
3.Set IP address of each computer.
4.send message from one to another computer.
5.Monitor all the work carefully.

Conclusion :A Local Area Network is simply a way of using computer hardware and software to further increase the productivity of personal computers and those who use them. So with this experiment we can make proper use of lan and can create lan for personal use.