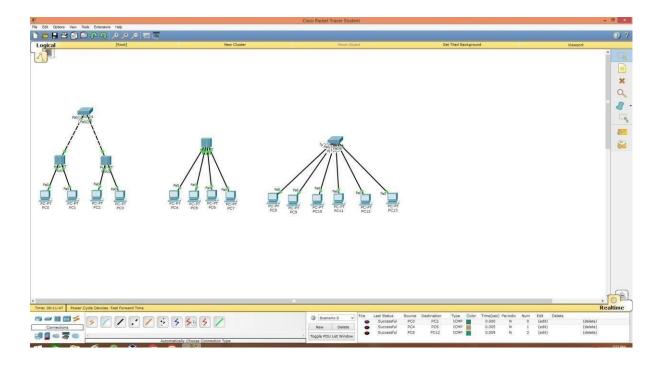
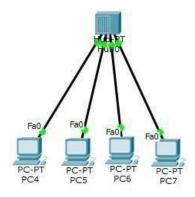
EXPERIMENT-1

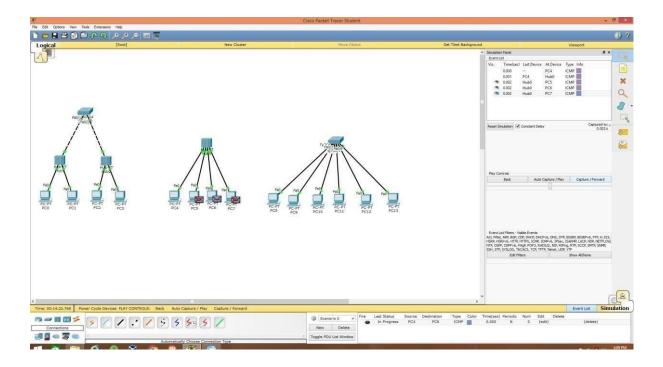
TITLE OF THE EXPERIMENT - Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate ping message.



1. STAR TOPOLOGY USING A HUB:



Topology



Simulation of network with Hub when message is sent from PC4(IP address 10.0.0.5) to PC6(10.0.0.7)

PING RESULTS:

```
Physical Config Desktop Custom Interface

Command Prompt

Packet Tracer PC Command Line 1.0

PCyping 10.0.0.7 with 32 bytes of data:

Reply from 10.0.0.7: bytes=32 time=time TIT=128

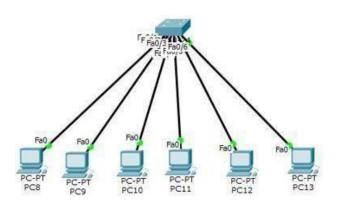
Packets: Sent = 4. Bocolved = 4. Lost = 0 (0* loss).

Approximate round trip times in milli-seconds:

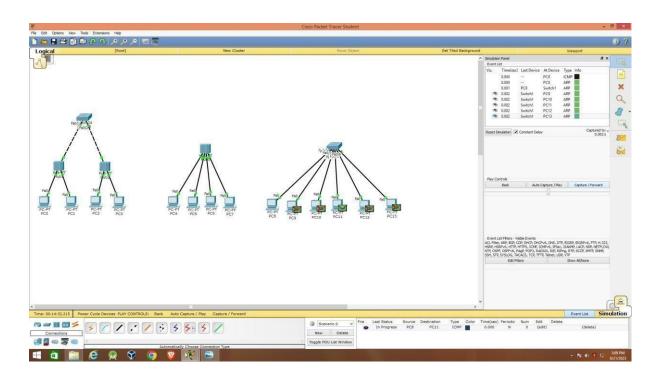
Minimum = time, Maximum = time, Average = time

PC>
```

2. STAR TOPOLOGY USING SWITCH:



Topology



Simulation of network with Switch when message is sent from PC8(IP address 10.0.0.9) to PC11(10.0.0.13)

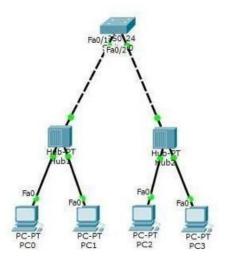
PING RESULTS:

```
Physical Config Desktop Custom Interface

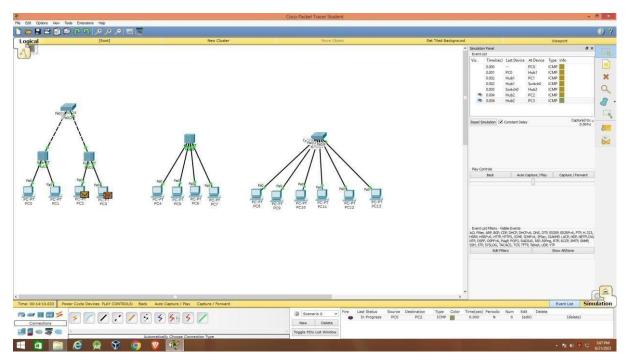
Command Prompt

Packet Tracme PC Command Line 1.0
PC-pring 10.0.013 with 32 bytes of data:
Reply from 10.0.0.13; bytes=32 time=dams TTL=128
Re
```

3. HYBRID TOPOLOGY USING A SWITCH AND A HUB:



Topology



Simulation of network when message is sent from PC0(IP address 10.0.0.1) to PC2(10.0.0.3)

PING RESULTS:

```
Physical Config Desktop Custom Interface

Command Prompt

Packet Tracer PC Command Line 1.6
PC>10.0.0.3
Invalid Command.

PC>ping 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3 bytes=32 time=0ms TTL=128
Ping statistics for 10.0.8.3

Packets: Sent = 4, Received = 4, Lost = 0 (04 loss).

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = Nms, Average = 2ms
PC-
```