Computer Network (PMC 202)
Mid - Term Practical Exam

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Problem Statement :- Design a network for the HR department and the size of the department is 10 users. also show the communication between user. Number 1 & user number 5 of the network.

objective :- To understand how to create a wired LAN using switch in packet tracer and buid 10 user system.

Description :- paste snapshot of network design, IP configuration and connectivity.

Step 1 -

Open Software packet tracer.

Step 2 -

Go to bottom tosk bar and select "Network devices" and under that select switches and drog drop it to the logic board.

Step 3 -

Select copper straight-through wire from the "connection" tab and then connect all 10 pc's to the switch using fust ethernet connection. Setup 10 p'c.

Step 4 -

Next, configure the ip by clicking on PC0 to PC9 Go to desktop bar and select ip configuration.

Step 5 -

Set ip address for PC0 on.
ip - 192.168.1.1.
Set ip address for PC9 on.
ip 192.168.1.5

Step 6 -
Repeat step 5 for all 10 PC's.

Step 7.
Check the connection b/w switch and PC's using command prompt.

Step 8.
Open command prompt and type ping (ip of the PC)
ping 192.168.1.5   (check connection b/w PC0 to PC4)

Switch and PC's are connected successfully.

Step 9.
Repeat step 8 for check connection. b/w
PC4 connected or not PC0.
ping 192.168.1.1.

PC0 — □ ✕

Physical   Config   Desktop   Programming   Attributes

Command Prompt   ✕

```
Packet Tracer PC Command Line 1.0
C:\>ping192.168.1.5
Invalid Command.

C:\>ping 192.168.1.5

Pinging 192.168.1.5 with 32 bytes of data:

Reply from 192.168.1.5: bytes=32 time<1ms TTL=128
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC4 — □ ✕

Physical   Config   Desktop   Programming   Attributes

Command Prompt   ✕

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```