**Task-2**

**Execute the following network commands like ipconfig , tracert, telnet, netsh, ping, nslookup, netstat**

**Procedure :**

Step 1: Launch CISCO packet tracer; double click the cisco packet tracer icon on your desktop or find it the search bar or applications list and open the program.

Step 2: Create a simple network topology

1. Add devices

Drag and drop a router and switch from the device list on to the workspace

Drag and drop 2 PC’s on to the workspace

1. Connect devices:

Use the connection tool to connect the devices

* Connect one PC to the switch using the Copper Straight-Through cable
* Connect the switch to the router using another Copper Straight-Through cable
* Connect the second PC to the switch using Copper straight-Through cable

1. Configure devices:

* Configure the router; click on the router-> go to config tab -> assign IP address to the router interfaces

Ex: [PC0]Interface G0/0/0 : IPv4 add = 192.168.1.1 , Subnet mask = 255.255.255.0

[PC1] Interface G0/0/1 : IPv4 add = 192.168.2.1 , Subnet mask = 255.255.255.0

1. Configure the PC’s :

* Click on each PC -> go to the desktop option -> IP configuration -> assign IP addresses to each PC

Ex: [PC0] IP : 192.168.1.2 , Subnet mask = 255.255.255.0,

default gateway = 192.168.1.1

[PC0] IP : 192.168.2.2 , Subnet mask = 255.255.255.0,

default gateway = 192.168.2.1

Step 3: Execute networking commands

Command **ipconfig**:

* Open the command prompt of PC0 : click on PC0 -> go to desktop tab -> open the command prompt -> type **ipconfig** command
* This command displays all current tcp ip network configurations values and all DHCP and DNS settings.

A screenshot of a computer program

AI-generated content may be incorrect.

* Follow the same steps for PC1: the output will be

A screenshot of a computer

AI-generated content may be incorrect.

Command **tracert**:

This command traces the path taken to a destination by sending ICMP echo request messages

Commnad : C: tracert 192.168.2.2

A computer screen with white text

AI-generated content may be incorrect.