# NPS LAB EXPERIMENT-2

**Objective**: Execute the following networking commands: ipconfig, tracert, telnet, netsh, ping, nslookup, and netstat in the command prompt using a simple network topology.

**Steps:**

**Step 1**: Open **Cisco Packet Tracer**.

**Step 2**: Drag and drop two PCs, a switch, and a server. Connect them using the automatic cable connection.

**Step 3**: On each PC, go to the desktop, click on ipconfig, and assign an IP address to each PC. Then, open the command prompt and use the ping command with the IP address of the other PC. It should reply from the other PC.

**Step 4**: Assign the subnet mask, default gateway, and DNS server addresses. In the DNS server, go to **Services**, provide the name and IP address of each PC, and click **Add**. Then, open the command prompt and type the nslookup command with the PC's name.

**Step 5**: Open the command prompt, type ipconfig, and assign an IP address to the PC. It should reply from the other PC when you ping it.

**Step 6**: Go to **Application Services**, add a complex PDU, assign the destination address, and set the periodic time. Messages will be sent, and you can view them by typing the netstat command in the command prompt.

**Step 7**: In the command prompt, type the tracert command followed by the IP address of another PC. It will show the route taken to reach that PC. Type the telnet command with the same IP address to connect to the server or remote device. Save the file with a name for future reference.