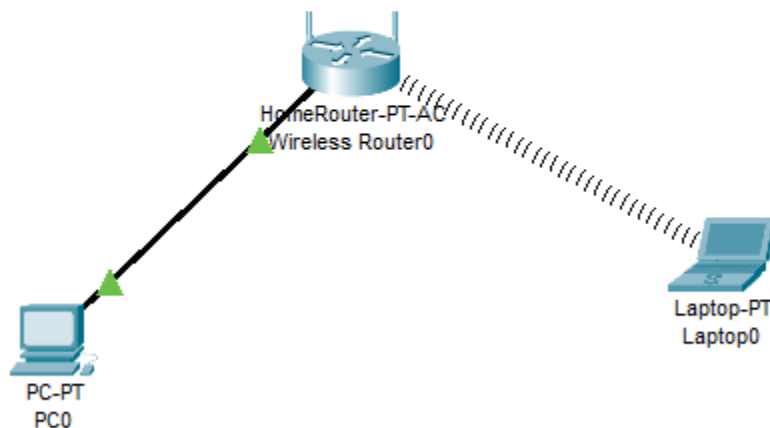# LAB- 1

Name: Amit Kumar Sahu

Reg. No.: 18mis7250

User Interface of Cisco Packet Tracker

A **router** is a networking device that forwards data packets between computer networks. **Routers** perform the traffic directing functions on the Internet. Data sent through the internet, such as a web page or email, is in the form of data packets.

Reg No. 18MIS7250

A **server** is a computer that provides data to other computers. It may serve data to systems on a local area network (LAN) or a wide area network (WAN) over the Internet. Many types of **servers** exist, including web **servers**, mail **servers**, and file **servers**. Each type runs software specific to the purpose of the **server**

A modem – a portmanteau of "modulator-demodulator" – is a hardware device that converts data from a digital format, intended for communication directly between devices with specialized wiring, into one suitable for a transmission medium such as telephone lines or radio.

A modem modulates one or more carrier wave signals to encode digital information for transmission, and demodulates signals to decode the transmitted information. The goal is to produce a signal that can be transmitted easily and decoded reliably to reproduce the original digital data.