**Experiment – 08**

To perform file transfer in client and server using TCP/IP.

Student Name: Roll No.:

Date of Performance: Date of Submission:

Staff Signature: Grade:

# Aim:

To perform file transfer in client and server using TCP/IP.

# Software/Hardware Required:

1. Laptop/PC
2. Windows 10/11
3. Cisco Packet Tracer Software

# Theory:

FTP (File Transfer Protocol) is a standard network protocol used for transferring files between a client and a server over TCP/IP network. Here’s an explanation for FTP.

* It operates on client server model.
* Client establishes a control connection with server to send commands and receive response.
* Ftp supports authentication mechanisms.
* To transfer files user can use commands like RETR (Retrieve) to download from a server or STOR (Store) To upload files to a server.
* FTP also supports commands like deleting files (DEL) renaming files (RNER, RNTO) and creating directions (MKI).
* Data transfer in ftp occurs over a separate connection.

# Procedure:

1. Configuring router 0:
   1. Select two routers from network device
   2. Set IP as 192.168.1.1 and subnet as 255.255.255.0 and turn on port status.
   3. Configure Gigabit Ethernet 1 as 10.0.0.0 and subnet as 255.0.0.0.
2. Configuring PCs:
   1. Select PC-PT from end devices.
   2. Set 192.168.1.2 on PC0.
   3. Set 192.168.1.3 on PC1 subnet as 255.255.255.0.
   4. In global setting assign default gateway as 192.168.1.1.
3. Configure server:
   1. Select a server from devices.
   2. Configure default gateway as 10.0.0.0.
   3. Fast Ethernet 0 assign 10.0.0.2, 255.0.0.0.
   4. Go to service then open FTP service.

# Conclusions:

FTP server allows file transfer from one device to another over a network connection.



