

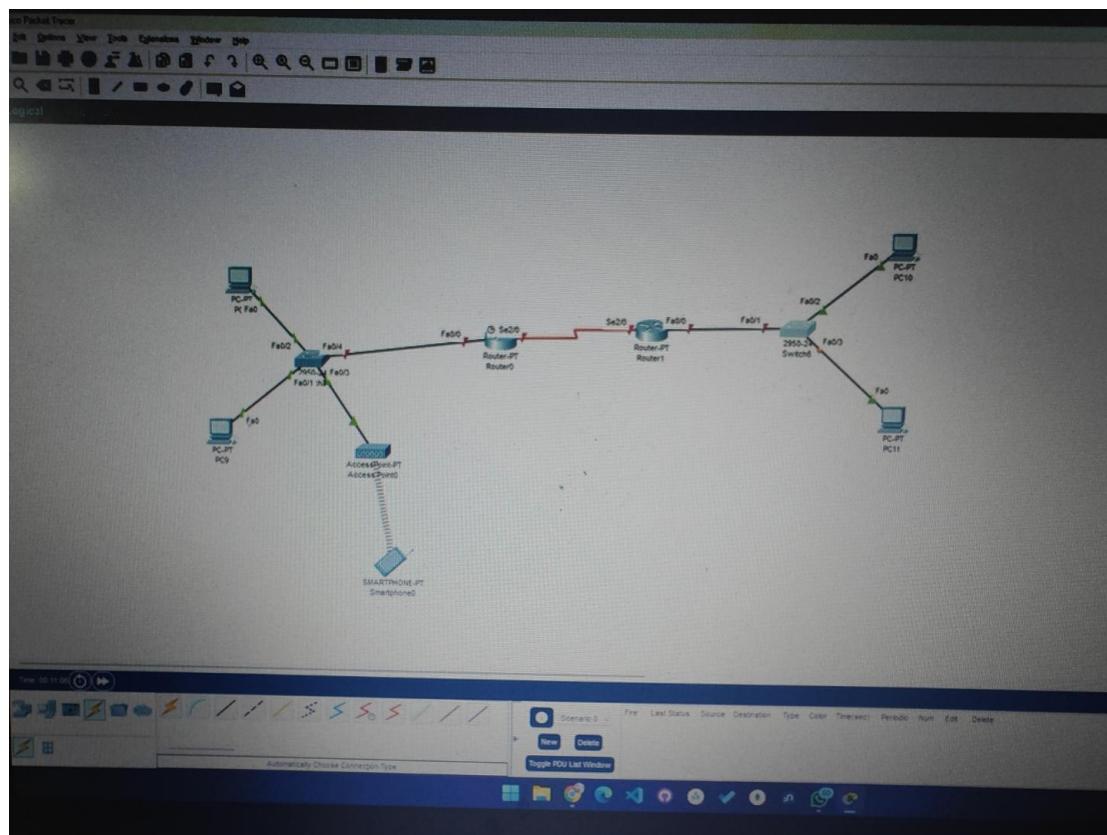
Prac1 - just draw

Practical 2- take 2 normal pc ,config , fast Ethernet , static -

Ipv4 madhe - 10.0.0.1,250.0.0.0

Pc1-10.0.0.1 , desktop pc2 , command prompt, ping 10.0.0.1 ,  
then successful

Practical 3 - 2 pt router ,2950-24 switch , 2 pc ,  
,access point (ACPT), smartphone , then , take 2950 switch  
and connect network



Practical 4

RIP

Take 3 PT router , 3 pc , pc 1- 192.168.10.2

Pc2-192.168.20.2 , pc3 - 192.168.30.2

And router as 10.1 , 20.1,30.1

Give pc ip - ipv4 madhe 192.168.10.2 , config -  
setting ,default gateway -give router ip - 192.168.10.1

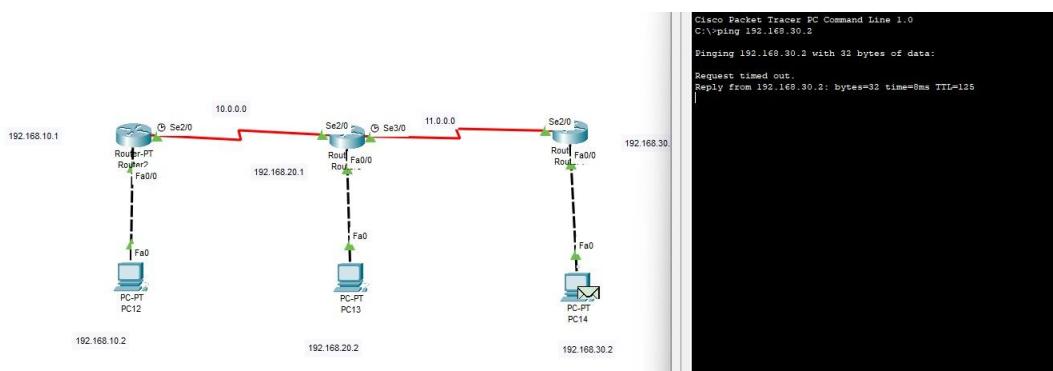
Give router , fast Ethernet 0/0- ipv4-192.168.10.1, then serial -  
ipv4-10.0.0.1 (router serial)

Now router 1 - RIP , add 10.0.0.0, 192.168.0.0

Router 2- add 10.0.0.0 , 11.0.0.0 ,192.168.0.0 (serial 2-  
10.0.0.2 , serial 3- 11.0.0.1

Router3 - add 11.0.0.0 ,192.168.0.0(serial-11.0.0.2)

Then pc1- command prompt ping 192.168.30.2(sending  
packet from pc1-pc3)



Practical 5-

eclipse , cn.tcp - click tcpsever , run

Then click tcpclient then run

Then cn.udp , same process

Practical 6 -

cn.tcpfile , run server , runclient , click - display selected control , copy path then show it

Practical -7

Open wireshark, go to divesh website, open command prompt , and type ping then divesh website url , then copy ip , then open wireshark and apply filter tcp and ip.addr == ip copied , then open website , go to wireshark and refresh

Q2- open statistics, HTTP , packet counter , done

Q3type - tcp.flags.push

tcp.flags.syn , tcp.flags.reset

Q4-statistics , Ipv4 statistics , display filter - type tcp

Practical 8 -

Open Cisco

Server pt , switch 29... , 2 pc , connect

Server - config , interface - fast Ethernet - ipv4, 10.0.0.1 , port status On ,

Server - services , HTTP - On , HTTPS - On , ftp- ON

Pc1, config fast Ethernet -10.0.0.2

Pc2, config fast Ethernet -10.0.0.3 , go to pc1 , desktop, web browser, url- http://10.0.0.1

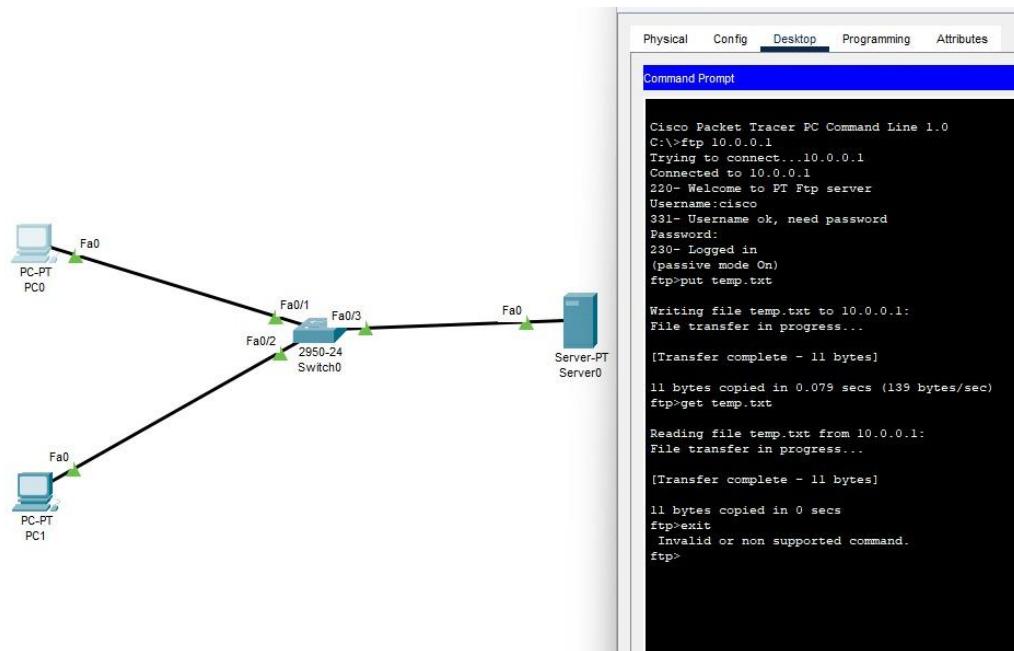
Https - https...

Ftp- desktop, scroll , text editor, Hello world , ctrl s , temp.text , command prompt - ftp 10.0.0.1 , username - cisco

password - cisco

Type - put temp.txt

get temp.txt



## Practical 9

### Wireshark

, filter , ssl

## Practical 10

Proton vpn , connect, open [amazon.com](https://amazon.com) , open wireshark, filter - esp , reload website or change vpn server , see result , esp full form

Practical 11- server pt , 2 computer, 2950 switch, connect

Server , services, DHCP , service on , save

Pc1 , config , fast Ethernet 0 , ip config , DHCP , wait 2 sec , ip comes automatically

Practical 12- python dns\_lookup.py

Run , select 1 , `divesh.adhivarekar.github.io`

Copy ip , select 2 , then copy ip , take output

```

1 import socket
2
3 print("== DNS Lookup Program ==")
4 print("1. Find IP address from Domain name")
5 print("2. Find Domain name from IP address")
6
7 choice = input("Enter your choice (1 or 2): ")
8
9 if choice == '1':
10     domain = input("Enter domain name (e.g., www.google.com): ")
11     try:
12         ip = socket.gethostbyname(domain)
13         print(f"IP address of {domain} is: {ip}")
14     except socket.gaierror:
15         print("Error: Unable to find IP address for the given domain.")
16
17 elif choice == '2':
18     ip = input("Enter IP address (e.g., 8.8.8.8): ")
19     try:
20         domain = socket.gethostbyaddr(ip)
21         print(f"Domain name for IP {ip} is: {domain[0]}")
22     except socket.herror:
23         print("Error: Unable to find domain for the given IP address.")
24 else:
25     print("Invalid choice! Please enter 1 or 2.")
26

```

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

```

base) PS E:\Github Repos\sl1\cn> python .\dns_lookup.py
== DNS Lookup Program ==
. Find IP address from Domain name
. Find Domain name from IP address
Enter your choice (1 or 2): 1
Enter domain name (e.g., www.google.com): diveshadivarekar.github.io
IP address of diveshadivarekar.github.io is: 185.199.110.153
base) PS E:\Github Repos\sl1\cn> python .\dns_lookup.py
== DNS Lookup Program ==
. Find IP address from Domain name
. Find Domain name from IP address
Enter your choice (1 or 2): 2
Enter IP address (e.g., 8.8.8.8): 185.199.110.153
Domain name for IP 185.199.110.153 is: cdn-185-199-110-153.github.com
base) PS E:\Github Repos\sl1\cn>

```

