Lab – 4: GNS3 and Cisco Packet Tracer Documentation

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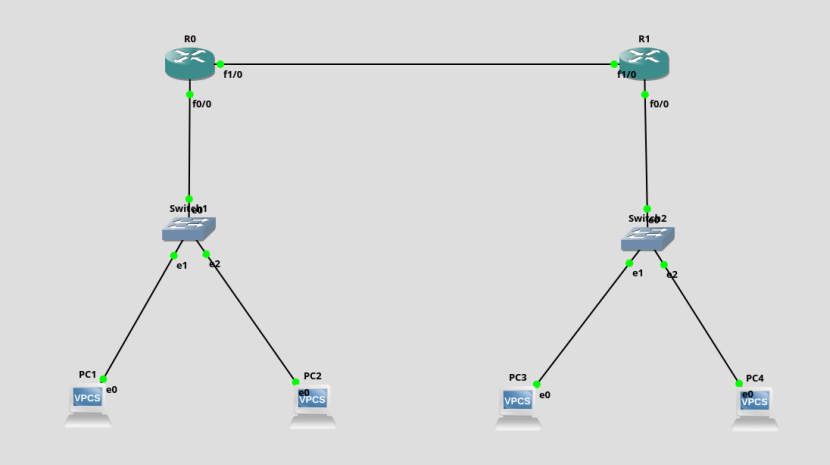
Branch & Section: CSE – B
Roll NO: 38

GNS3

Question 1:

Arrangement -



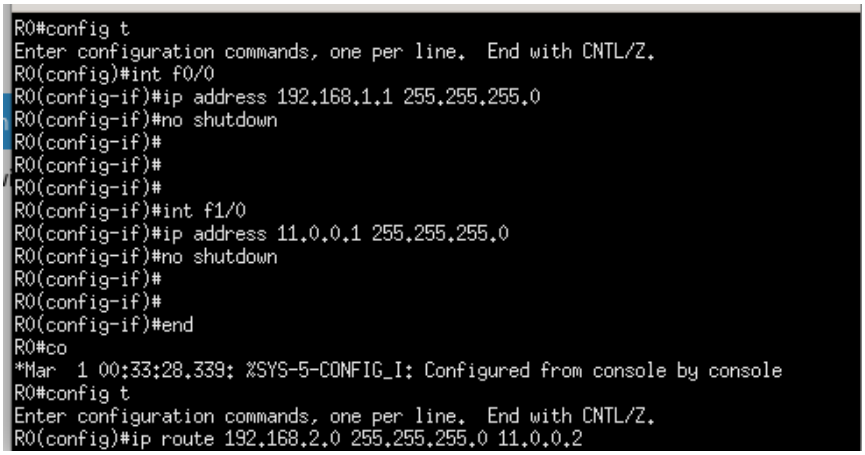
Configuration of Ips of all PCs: (respectively for all PCs)

```
PC1> show ip

NAME        : PC1[1]
IP/MASK     : 192.168.1.2/24
GATEWAY     : 192.168.1.1
DNS         :
MAC         : 00:50:79:66:68:00
LPORT       : 10022
RHOST:PORT  : 127.0.0.1:10023
MTU         : 1500
```

Code (at PCs):

```
# Configuring the PCs
# PC 1
192.168.1.2/24 192.168.1.1
# PC 2
192.168.1.3/24 192.168.1.1

# PC 3
192.168.2.2/24 192.168.2.1
# PC 4
192.168.2.3/24 192.168.2.1
```

Router Configuration:



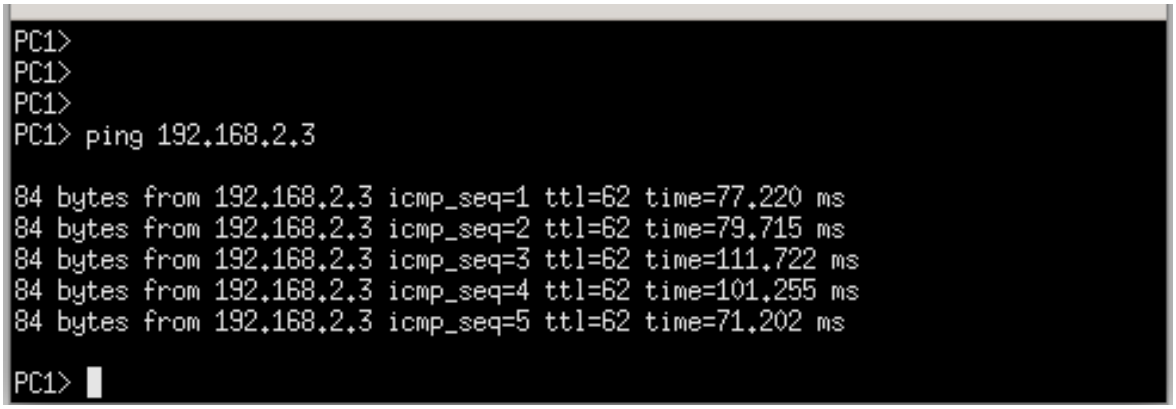
Code (at Router 1):

```
config t
int f0/0
ip address 192.168.1.1 255.255.255.0
no shutdown

int f1/0
ip address 11.0.0.1 255.255.255.0
no shutdown
end

# Part 2 – same router in config mode without selecting the interface
ip route 192.168.2.0 255.255.255.0 11.0.0.2
no shutdown
end
```

Code (at Router 2):

```
config t
int f1/0
ip address 192.168.2.1 255.255.255.0
no shutdown

int f0/0
ip address 11.0.0.2 255.255.255.0
no shutdown
end

# Part 2 – same router in config mode without selecting the interface
ip route 192.168.2.0 255.255.255.0 11.0.0.1
no shutdown
end
```

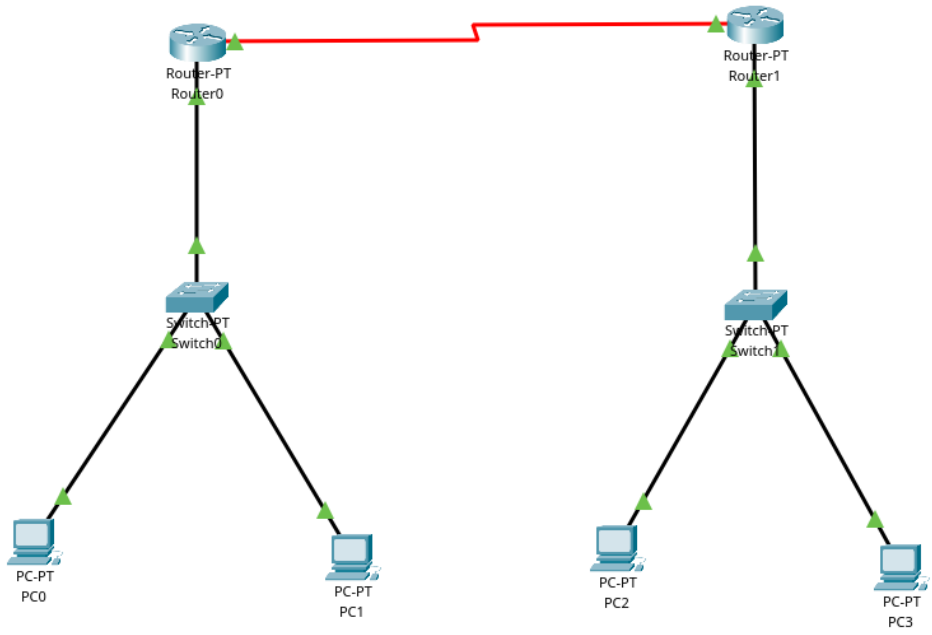
Pinging a computer across routers:



P.T.O.

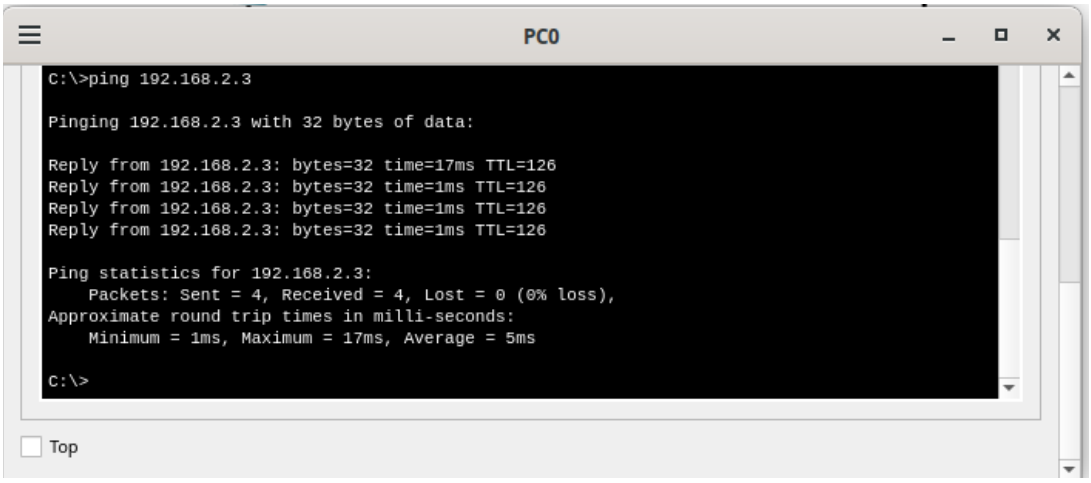
Cisco Packet Tracer

Arrangement of PCs, Routers and Switches:



(Configure the PCs and routers like it is done in GNS3)

Pinging a PC across routers:



Cisco Packet Tracer

Question 2:

DNS server configuration

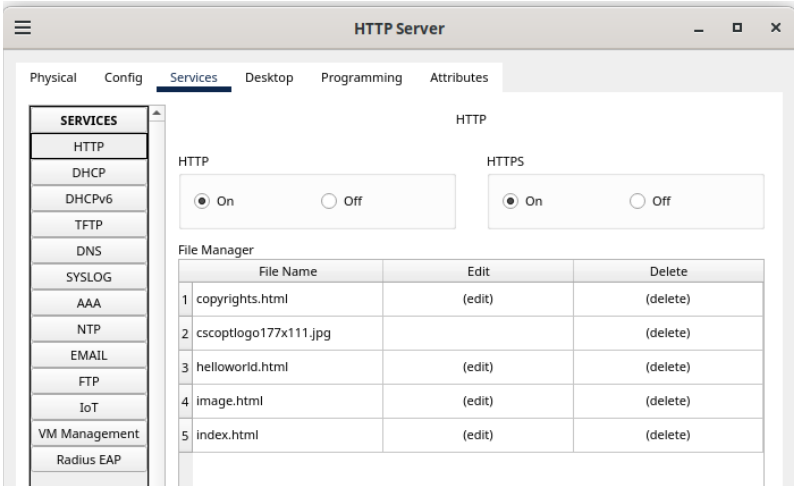
1. Set the DNS value on all PCs as the IP address of the DNS server, 192.168.1.200.
2. In the server config, switch off all services other than DNS.
3. Add an A Record for domain name www.sg.com with IP address 192.168.1.100, i.e. the IP address of the HTTP server.

HTTP Server Configuration

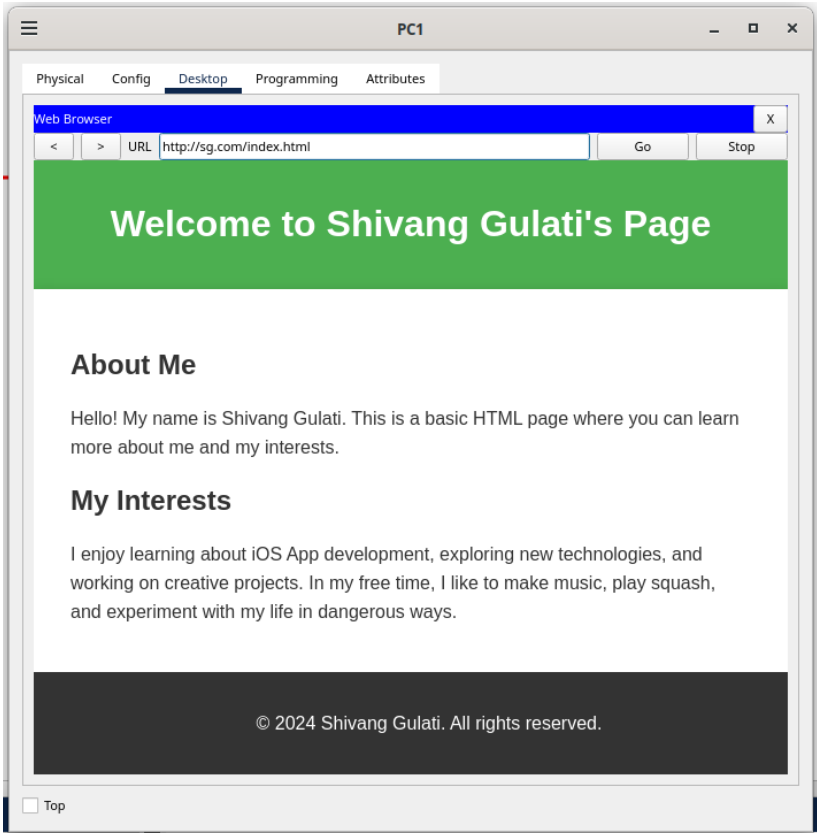
1. Set the IP address of the HTTP Server as 192.168.1.100
2. Switch off all services except the HTTP service.
3. Add an index.html file with a HTML code to display a basic webpage

Accessing the webpage

1. On any of the PCs, go to Desktop and select the Web Browser.
2. Search and hit Go for the URL www.sg.com.
3. Add an index.html file with a HTML code to display a basic webpage



Webpage:


PC1
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://sg.com/index.html
Go
Stop
Welcome to Shivang Gulati's Page
About Me
Hello! My name is Shivang Gulati. This is a basic HTML page where you can learn more about me and my interests.
My Interests
I enjoy learning about iOS App development, exploring new technologies, and working on creative projects. In my free time, I like to make music, play squash, and experiment with my life in dangerous ways.
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