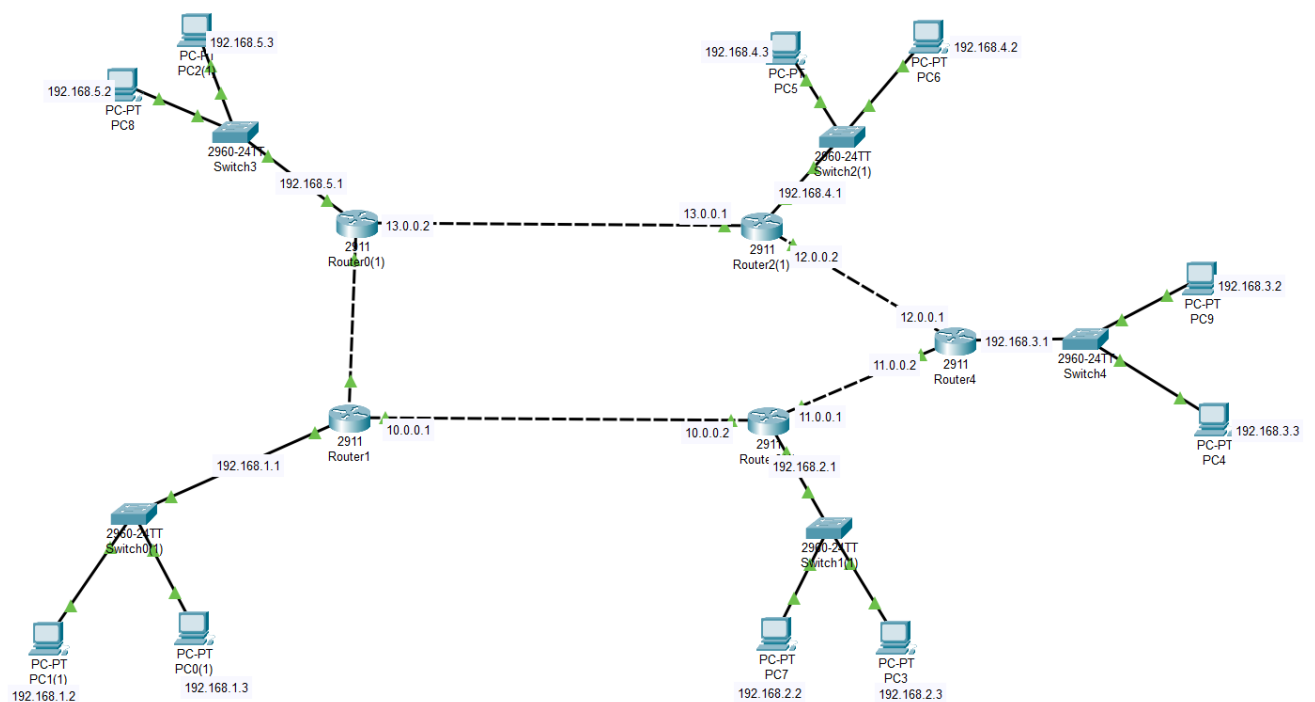Name : Bramha Nimbalkar

Roll no : 7
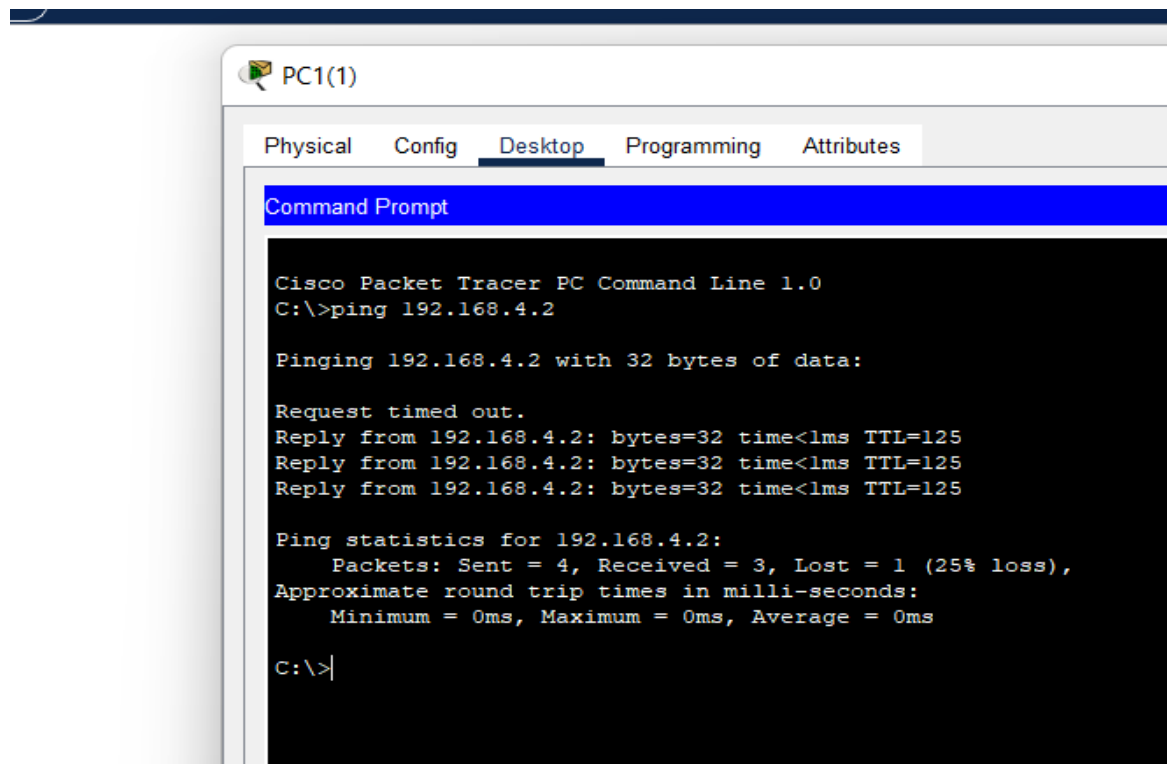
SRN : 202100381

ASSIGNMENT 4
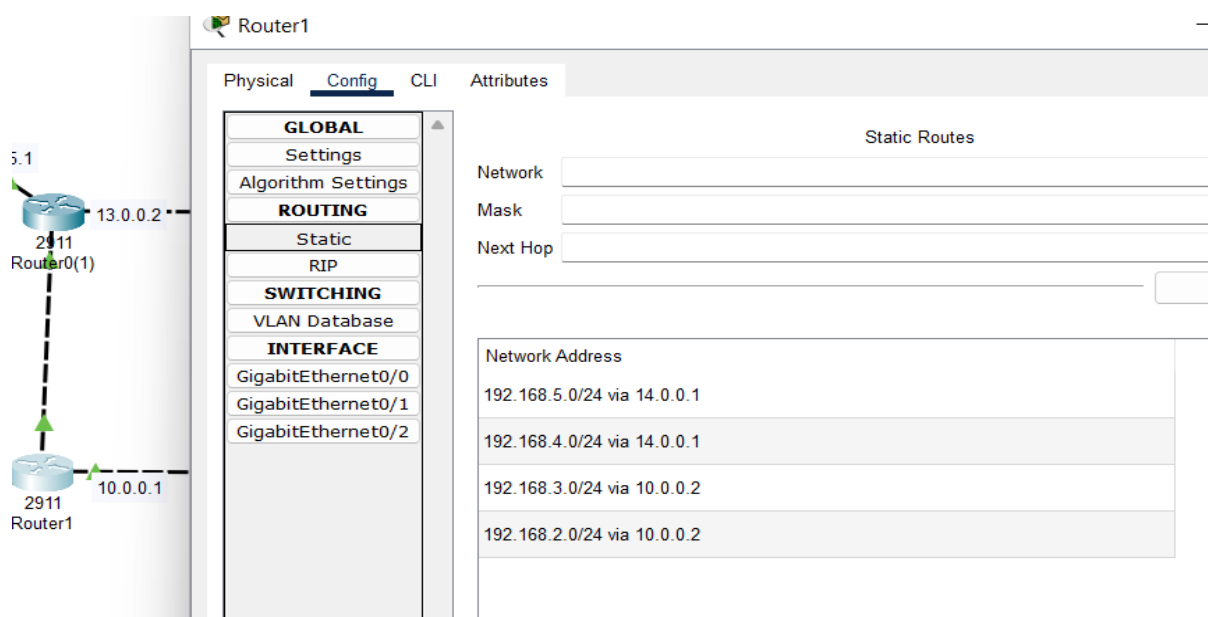
Configuration of router by using router commands and implement static routing

Below is the example of sending packets from one network to other


```
PC1(1)

Physical   Config   Desktop   Programming   Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.4.2

Pinging 192.168.4.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.4.2: bytes=32 time<1ms TTL=125
Reply from 192.168.4.2: bytes=32 time<1ms TTL=125
Reply from 192.168.4.2: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.4.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Routing tables created are:


```
Router1                                                           —

Physical   Config   CLI   Attributes

   GLOBAL                                      Static Routes
   Settings
5.1
   Algorithm Settings        Network
        13.0.0.2    ROUTING    Mask
2911              Static       Next Hop
Router0(1)          RIP

   SWITCHING
   VLAN Database
   INTERFACE            Network Address
   GigabitEthernet0/0
   GigabitEthernet0/1   192.168.5.0/24 via 14.0.0.1
   GigabitEthernet0/2
        10.0.0.1         192.168.4.0/24 via 14.0.0.1
2911
Router1                   192.168.3.0/24 via 10.0.0.2

                          192.168.2.0/24 via 10.0.0.2
```

Router3(1)

Physical | Config | CLI | Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/2

Static Routes

Network
Mask
Next Hop

Network Address

192.168.1.0/24 via 10.0.0.1

192.168.3.0/24 via 11.0.0.2

192.168.5.0/24 via 10.0.0.1

192.168.4.0/24 via 11.0.0.2

Router2(1)

Physical | Config | CLI | Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/2

Static Routes

Network
Mask
Next Hop

Network Address

192.168.3.0/24 via 12.0.0.1

192.168.5.0/24 via 13.0.0.2

192.168.1.0/24 via 13.0.0.2

192.168.2.0/24 via 12.0.0.1

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0

GigabitEthernet0/1

GigabitEthernet0/2

Network

Mask

Next Hop

Add

Network Address

192.168.2.0/24 via 11.0.0.1

192.168.4.0/24 via 12.0.0.2

192.168.1.0/24 via 11.0.0.1

192.168.5.0/24 via 12.0.0.2

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0

GigabitEthernet0/1

GigabitEthernet0/2

0.2

0.1

Network

Mask

Next Hop

A

Network Address

192.168.4.0/24 via 13.0.0.1

192.168.1.0/24 via 14.0.0.2

192.168.3.0/24 via 13.0.0.1

192.168.2.0/24 via 14.0.0.2