

# 21CY681 - INTERNET PROTOCOL LAB - I

**Name:** Meera E Thimothy

**Register Number:** CB.EN.P2CYS22002

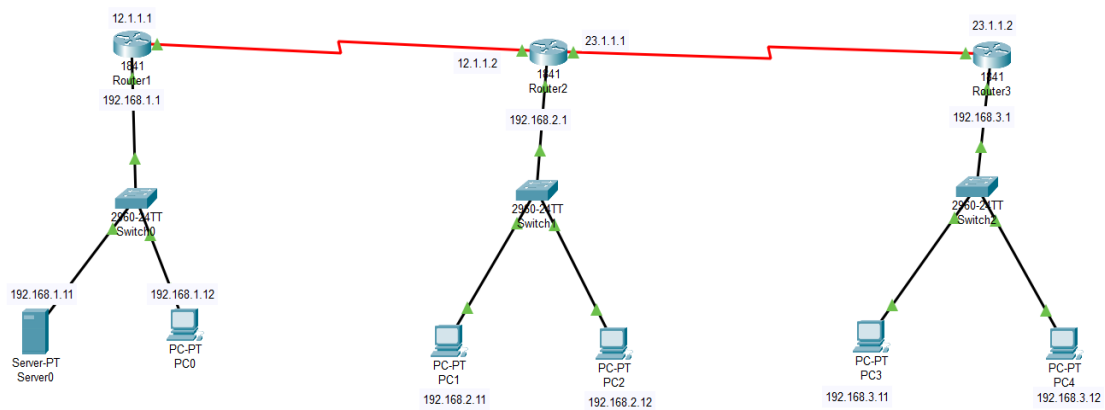
## Assignment Topic

Implementation of OSPF and BGP Packet tracer

## Tool

Cisco packet tracer

### 1) OSPF In packet tracer







```

C:\>ping 192.168.3.11

Pinging 192.168.3.11 with 32 bytes of data:

Request timed out.
Reply from 192.168.3.11: bytes=32 time=2ms TTL=125
Reply from 192.168.3.11: bytes=32 time=2ms TTL=125
Reply from 192.168.3.11: bytes=32 time=16ms TTL=125

Ping statistics for 192.168.3.11:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 16ms, Average = 6ms

C:\>ping 192.168.3.12

Pinging 192.168.3.12 with 32 bytes of data:

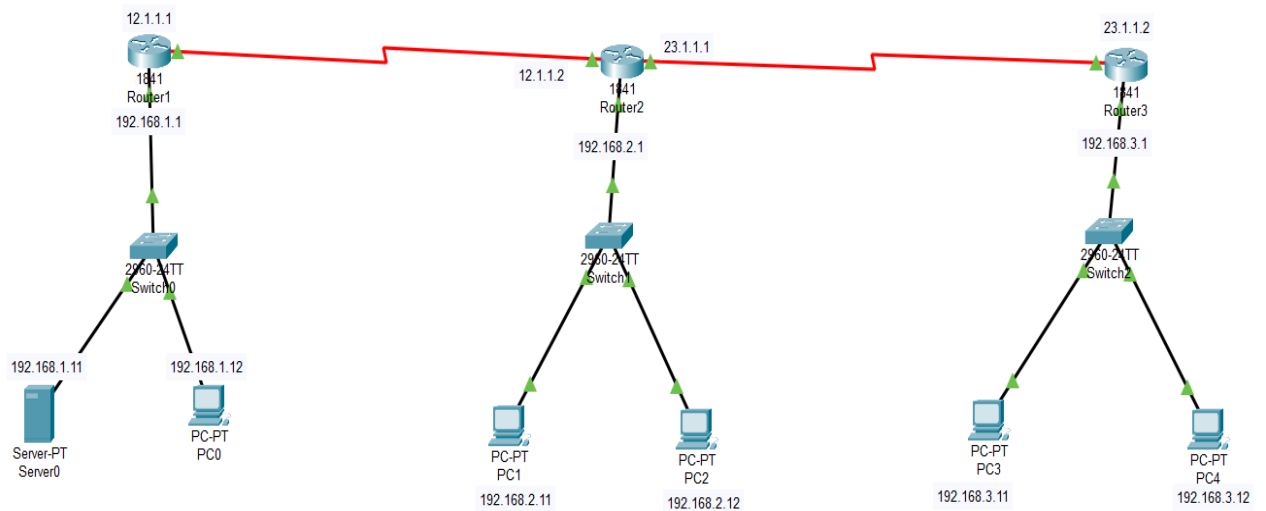
Request timed out.
Reply from 192.168.3.12: bytes=32 time=2ms TTL=125
Reply from 192.168.3.12: bytes=32 time=13ms TTL=125
Reply from 192.168.3.12: bytes=32 time=2ms TTL=125

Ping statistics for 192.168.3.12:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 13ms, Average = 5ms

C:\>

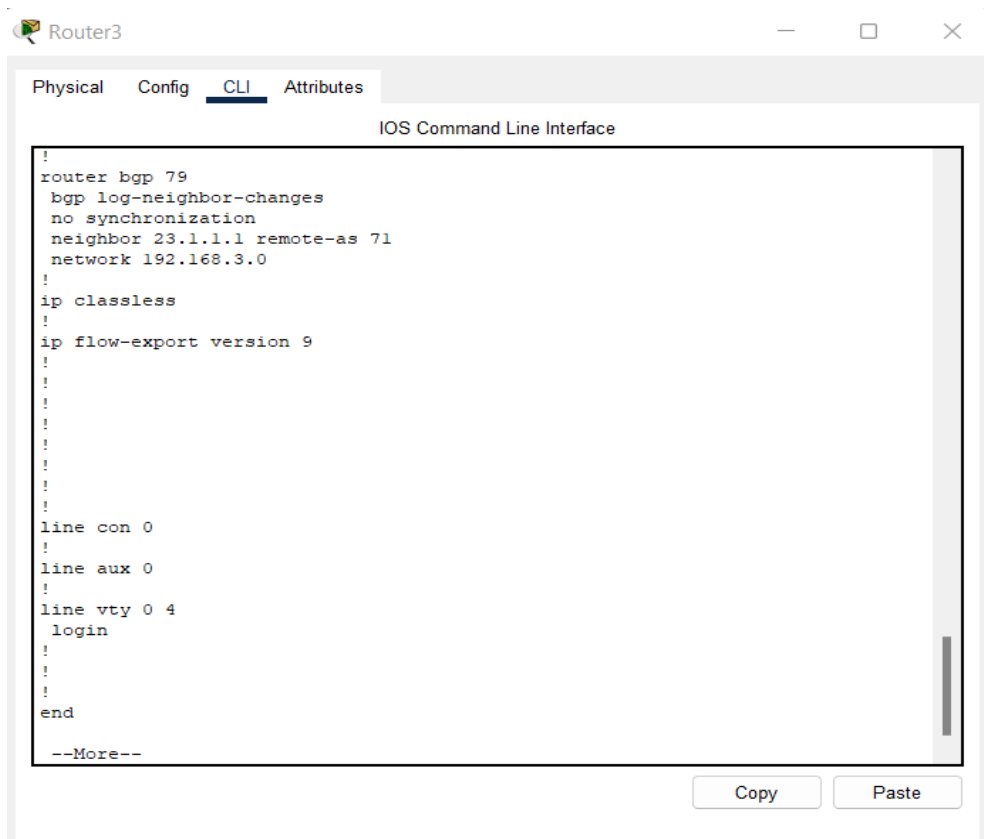
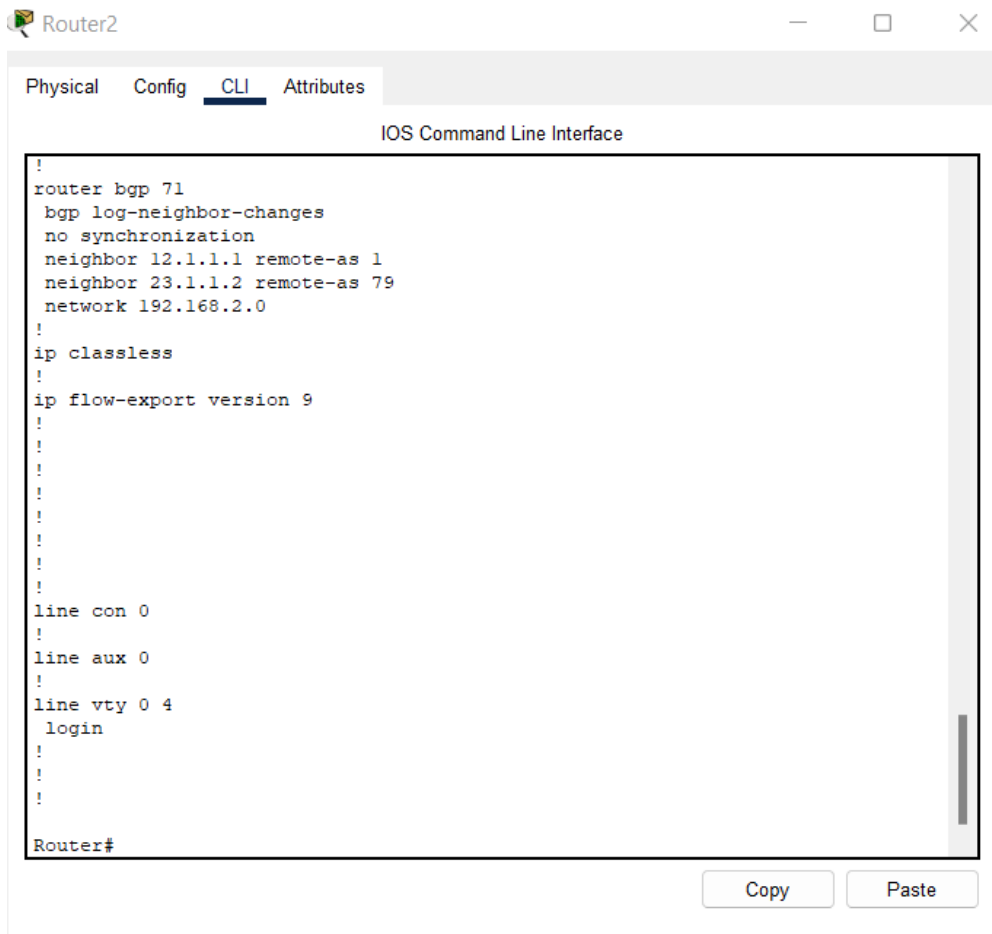
```

## 2) BGP In Packet Tracer



## IOS Command Line Interface

```
ip address 12.1.1.1 255.0.0.0
!
interface Serial0/0/1
 no ip address
 clock rate 2000000
 shutdown
!
interface Vlan1
 no ip address
 shutdown
!
router bgp 1
 bgp log-neighbor-changes
 no synchronization
 neighbor 12.1.1.2 remote-as 71
 network 192.0.0.0 mask 255.0.0.0
 network 192.168.1.0
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
!
!
--More--
```



PC0

Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.11

Pinging 192.168.2.11 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.11: bytes=32 time=2ms TTL=126
Reply from 192.168.2.11: bytes=32 time=1ms TTL=126
Reply from 192.168.2.11: bytes=32 time=10ms TTL=126

Ping statistics for 192.168.2.11:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 10ms, Average = 4ms

C:\>ping 192.168.2.12

Pinging 192.168.2.12 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.12: bytes=32 time=1ms TTL=126
Reply from 192.168.2.12: bytes=32 time=2ms TTL=126
Reply from 192.168.2.12: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.2.12:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\>
```

```
C:\>ping 192.168.3.12

Pinging 192.168.3.12 with 32 bytes of data:

Request timed out.
Reply from 192.168.3.12: bytes=32 time=2ms TTL=125
Reply from 192.168.3.12: bytes=32 time=3ms TTL=125
Reply from 192.168.3.12: bytes=32 time=2ms TTL=125

Ping statistics for 192.168.3.12:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 3ms, Average = 2ms

C:\>
```

## **Result**

Implementation of OSPF and BGP in packet tracer is done sucessful