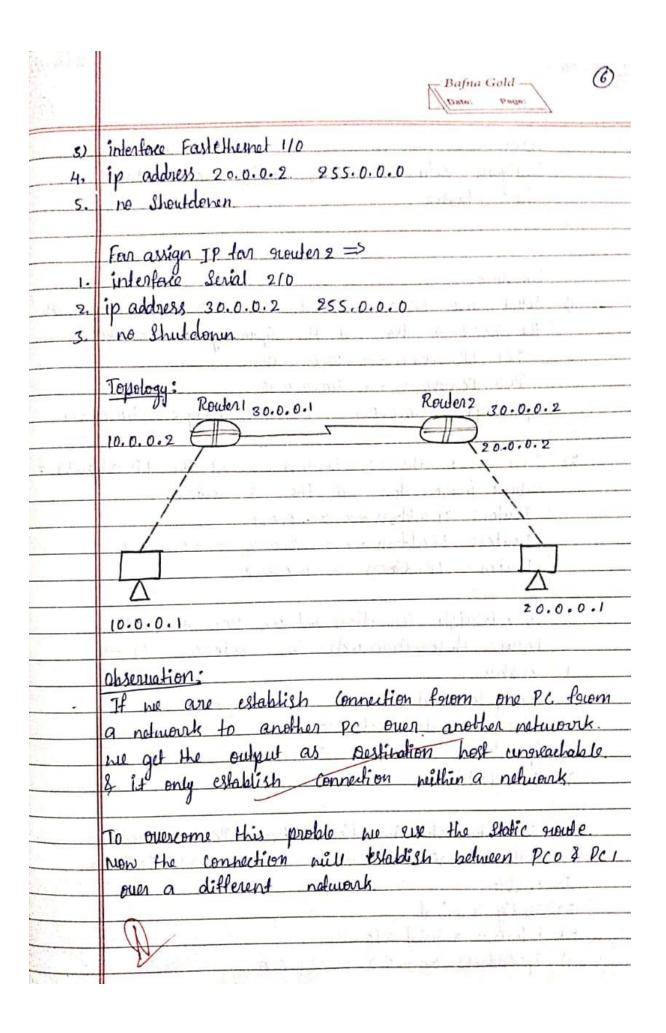
WEEK-3

3. Configure default route, static route to the Router.

LAB-03	
	AIM:
3.	Configure default sieule, Static sieule, to the Router
	Powcedune:
1.	scled 2 R's and 2 nouters from the fool bar.
	make dure that each PC connected to the each other
2)	then set the ip address and gateway to both the
	and devices.
3)	Connect grouter to grouter eving serial connection
4)	Assign IP for the each PC & also assign Subnet
	PC1 -> 10.0.0.1 , 255.0.0.0
	$P(2 \rightarrow 20.0.0.1)$, 255.0.0.0
5)	Assign gentenay for the each PC
	P(1 -> 10.0.0.2
10	Pc2 -> 20.0.0.2
	In CLI
	Follow these commands for Rowles !
	de enable
2	config terminal
3	interface fastethernet 010
4	ip address 10.0.0.2 255.0.0.0
	no shut
6	exid
	Fon assign IP four grouter!
	interfore serial2/p
2,	ip address 30.0.0.1 255.0.0.0
3.	no shuldonin
	Follow these commands for Rower 2
,	enable
2)	Config terminal.
and a	



Default route, static route to the Router.



PING RESPONSES:

```
C:\>ping 30.0.0.2

Pinging 30.0.0.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 30.0.0.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
C:\>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time<lms TTL=255
Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
```

```
C:\>ping 30.0.0.1

Pinging 30.0.0.1 with 32 bytes of data:

Reply from 30.0.0.1: bytes=32 time=lms TTL=255

Reply from 30.0.0.1: bytes=32 time<lms TTL=255

Reply from 30.0.0.1: bytes=32 time<lms TTL=255

Reply from 30.0.0.1: bytes=32 time<lms TTL=255

Ping statistics for 30.0.0.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = lms, Average = 0ms
```

```
C:\>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Reply from 10.0.0.2: Destination host unreachable.
Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface FastEthernet0/0
Router(config-if) #ip address 10.0.0.2 255.0.0.0
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if) #exit
Router(config) #interface Serial2/0
Router(config-if) #ip address 30.0.0.1 255.0.0.0
Router(config-if) #no shut
%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#
Router(config-if) #exit
enable
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     10.0.0.0/8 is directly connected, FastEthernet0/0
     30.0.0.0/8 is directly connected, Serial2/0
Router>enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #ip route 20.0.0.0 255.0.0.0 30.0.0.0
ROUTER-2
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface FastEthernet1/0
Router(config-if) #ip address 20.0.0.2 255.0.0.0
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
Router (config-if) #exit
```

```
Router(config) #interface Serial3/0
Router(config-if) #ip address 30.0.0.2 255.0.0.0
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
enable
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       ^{\star} - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     20.0.0.0/8 is directly connected, FastEthernet1/0
     30.0.0.0/8 is directly connected, Serial3/0
Router>enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #ip route 10.0.0.0 255.0.0.0 30.0.0.0
```

After setting static route:

```
C:\>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Reply from 20.0.0.1: bytes=32 time=10ms TTL=126

Reply from 20.0.0.1: bytes=32 time=3ms TTL=126

Reply from 20.0.0.1: bytes=32 time=1ms TTL=126

Reply from 20.0.0.1: bytes=32 time=3ms TTL=126

Ping statistics for 20.0.0.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 10ms, Average = 4ms
```

```
C:\>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2: bytes=32 time=1ms TTL=254

Reply from 20.0.0.2: bytes=32 time=1ms TTL=254

Reply from 20.0.0.2: bytes=32 time=2ms TTL=254

Reply from 20.0.0.2: bytes=32 time=6ms TTL=254

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 6ms, Average = 2ms
```

```
C:\>ping 30.0.0.2

Pinging 30.0.0.2 with 32 bytes of data:

Reply from 30.0.0.2: bytes=32 time=2ms TTL=254
Reply from 30.0.0.2: bytes=32 time=1ms TTL=254
Reply from 30.0.0.2: bytes=32 time=3ms TTL=254
Reply from 30.0.0.2: bytes=32 time=3ms TTL=254
Ping statistics for 30.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 3ms, Average = 2ms
```