

**21CY681– Internet Protocol lab**

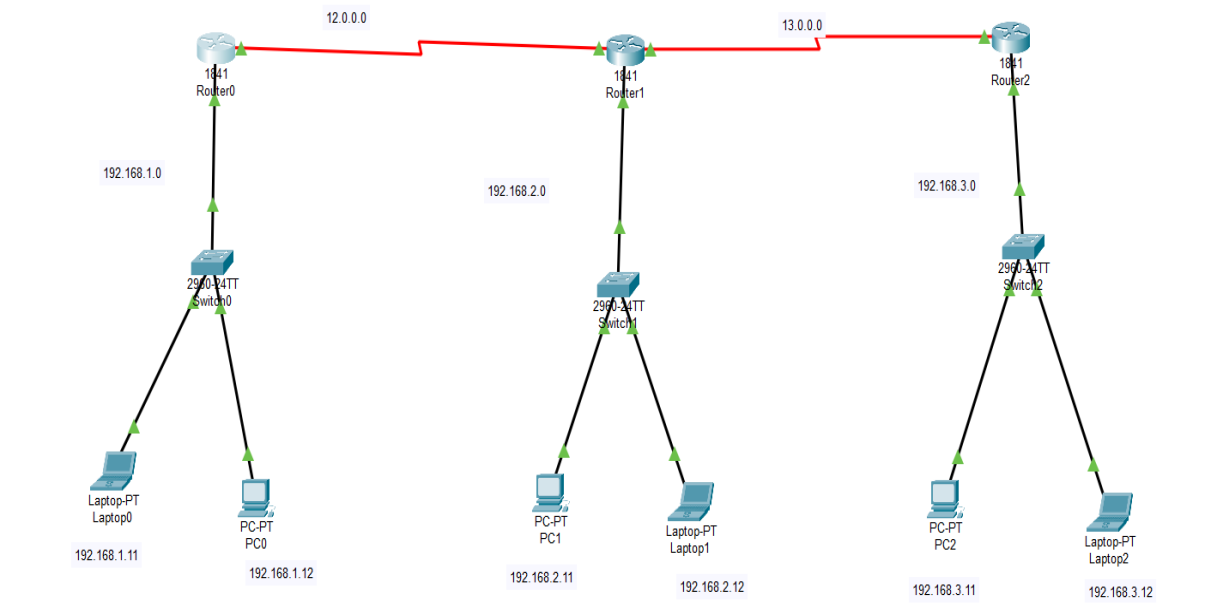
**ASSIGNMENT -7**

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**Register Number :** CYS22005

**Title:** Analyzing Implementing BGP using packet tracer

## ARCHITECTURE –



## ROUTER 1 –

```
Router>en
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router bgp 1
Router(config-router)#network 192.168.1.0
Router(config-router)#network 12.0.0.0
Router(config-router)#neighbor 12.0.0.2 ?
    next-hop-self  Disable the next hop calculation for this neighbor
    remote-as      Specify a BGP neighbor
Router(config-router)#neighbor 12.0.0.2 re
Router(config-router)#neighbor 12.0.0.2 remote-as 2
Router(config-router)#neighbor 192.168.2.11 remote-as 2
Router(config-router)#neighbor 192.168.2.12 remote-as 2
Router(config-router)#
Router(config-router)#neighbor 13.0.0.2 remote-as 3
Router(config-router)#neighbor 192.168.3.11 remote-as 3
Router(config-router)#neighbor 192.168.3.12 remote-as 3
Router(config-router)#
```

## ROUTER 2 –

```
Router>
Router>en
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#router bgp 2
Router(config-router)#network 192.168.2.0
Router(config-router)#network 12.0.0.0
Router(config-router)#network 13.0.0.0
Router(config-router)#
Router(config-router)#neighbor 12.0.0.1 re
Router(config-router)#neighbor 12.0.0.1 remote-as 1
Router(config-router)%%BGP-5-ADJCHANGE: neighbor 12.0.0.1 Up

Router(config-router)#neighbor 12.0.0.1 remote-as 1
Router(config-router)#neighbor 192.168.1.11 remote-as 1
Router(config-router)#neighbor 192.168.1.12 remote-as 1
Router(config-router)#
Router(config-router)#neighbor 13.0.0.2 r
Router(config-router)#neighbor 13.0.0.2 remote-as 3
Router(config-router)#neighbor 192.168.3.11 remote-as 3
Router(config-router)#neighbor 192.168.3.12 remote-as 3
Router(config-router)#
```







## ROUTER 3 –

```
Router>en
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#router bgp 3
Router(config-router)#network 192.168.3.0
Router(config-router)#network 13.0.0.0
Router(config-router)#
Router(config-router)#neighbor 13.0.0.1 remote-as 2
Router(config-router)%%BGP-5-ADJCHANGE: neighbor 13.0.0.1 Up

Router(config-router)#neighbor 192.168.2.11 remote-as 2
Router(config-router)#neighbor 192.168.2.12 remote-as 2
Router(config-router)#
Router(config-router)#neighbor 12.0.0.1 remote-as 1
Router(config-router)%%BGP-5-ADJCHANGE: neighbor 12.0.0.1 Up

Router(config-router)#neighbor 12.0.0.1 remote-as 1
Router(config-router)#neighbor 192.168.1.11 remote-as 1
Router(config-router)#neighbor 192.168.1.12 remote-as 1
Router(config-router)#
Router(config-router)#exit
```

## RESULT –

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC1	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC1	PC2	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC0	PC2	ICMP		0.000	N	2	(edit)	(delete)