

**(RA1911031010055) DIGVIJAY SINGH YADAV CN UNIVERSITY  
PRACTICAL**

AIM: TO CONFIGURE PPP ON A SERIAL LINK BETWEEN 2 ROUTERS

SOFTWARE USED: CISCO PACKET TRACER

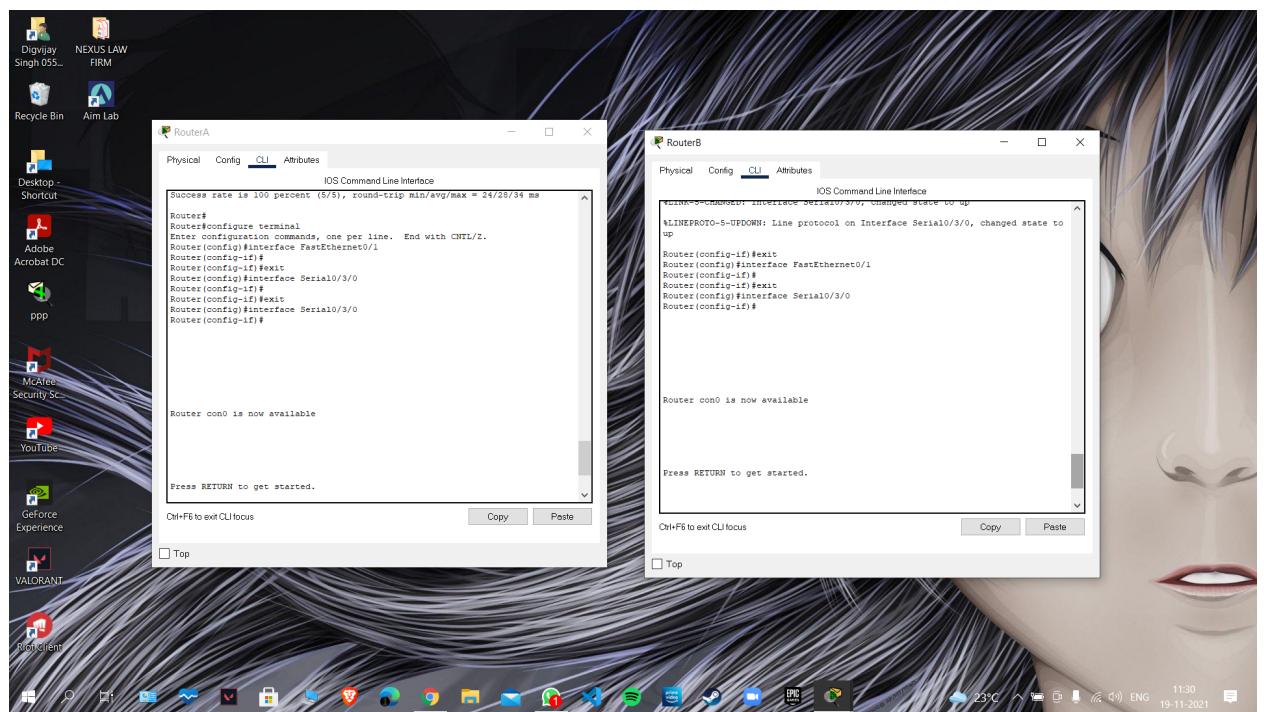
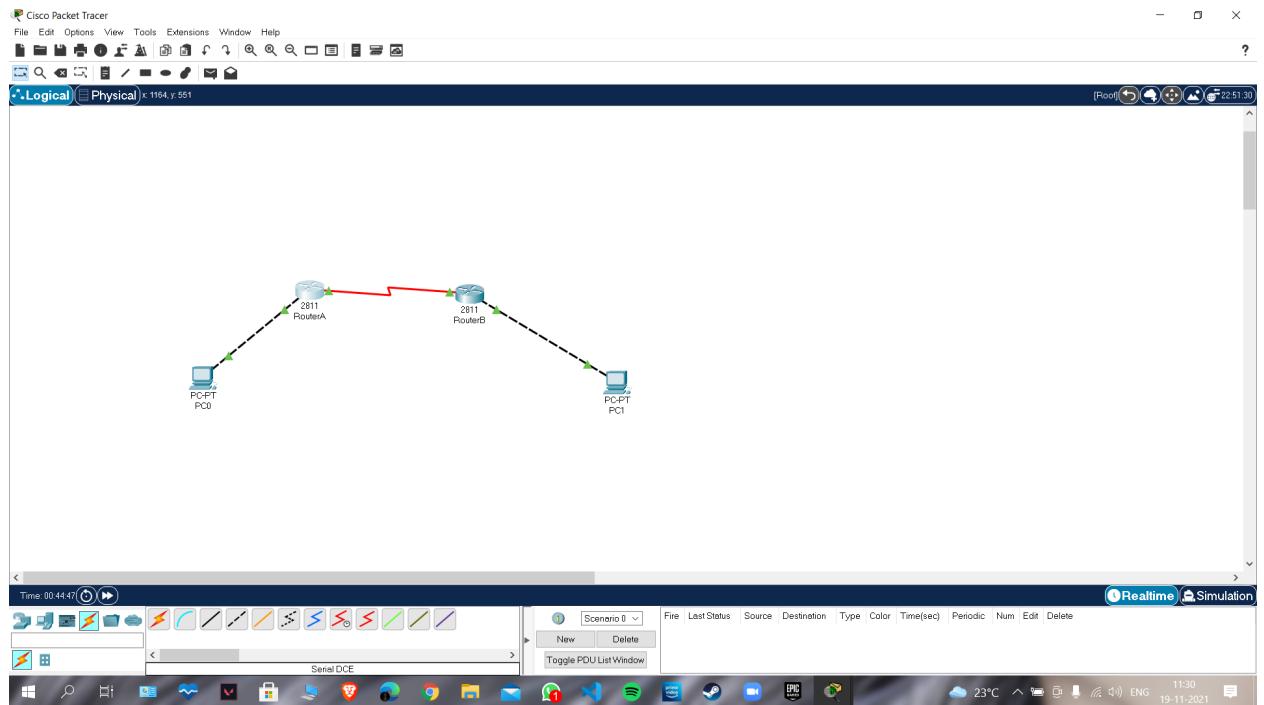
PROCEDURE:

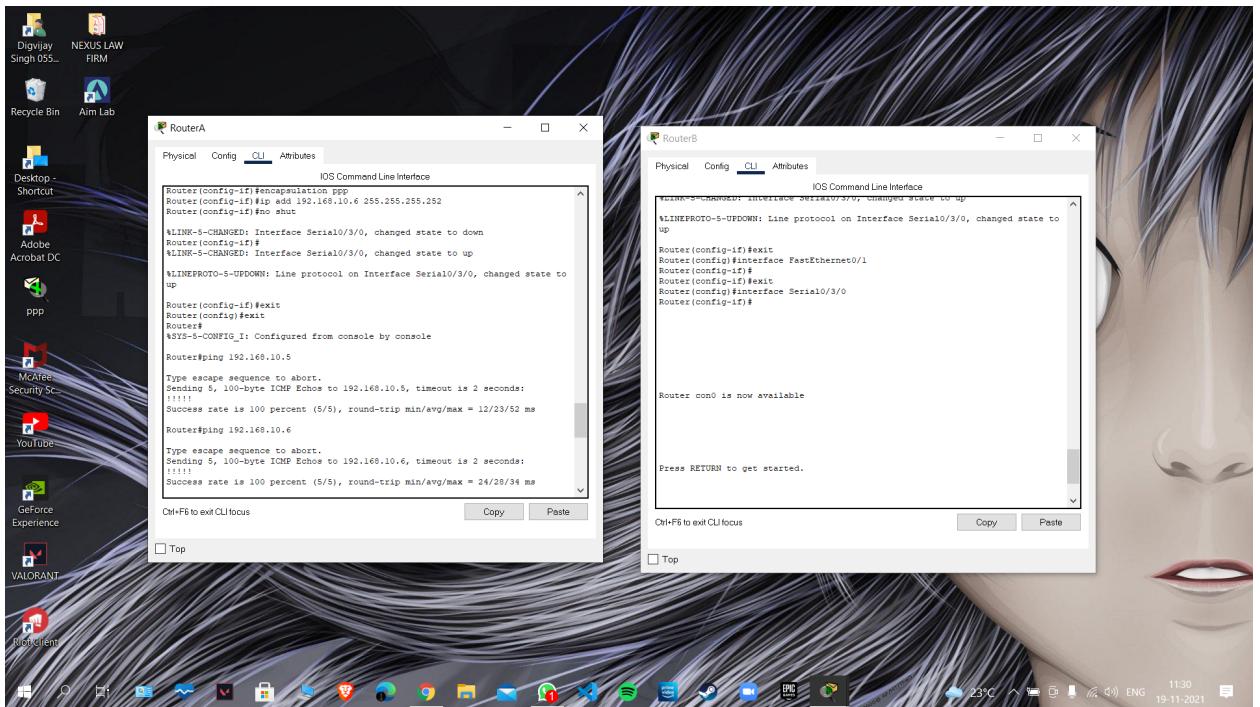
1. Create a network topology for ppp configuration as shown in the diagram;
2. Assign IP address to the PC's gateway address to their routers and configure default routing between routers.
3. Enter the following commands for the router A

```
#int se0/3/0
#encapsulation ppp
#ip add 192.168.10.6 255.255.255.252
#no shut
```
4. Enter the following commands for Router B

```
#int se0/3/0
#encapsulation ppp
#ip add 192.168.10.5 255.255.255.252
#no shut
```
5. Ping router A to test network connectivity

RESULT: PPP ON A SERIAL LINK B/W 2 ROUTERS HAS BEEN CONFIGURED SUCCESSFULLY.





RouterA

```
Router#config-if#encapsulation ppp
Router(config-if)#ip add 192.168.10.6 255.255.255.252
Router(config-if)#shut
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to down
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up
Router(config-if)#exit
Router(config)#exit
Router#
SYS-3-CONFIG_I: Configured from console by console

Router#ping 192.168.10.5
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.10.5, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 12/23/52 ms

Router#ping 192.168.10.6
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.10.6, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 24/20/34 ms
```

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RouterB

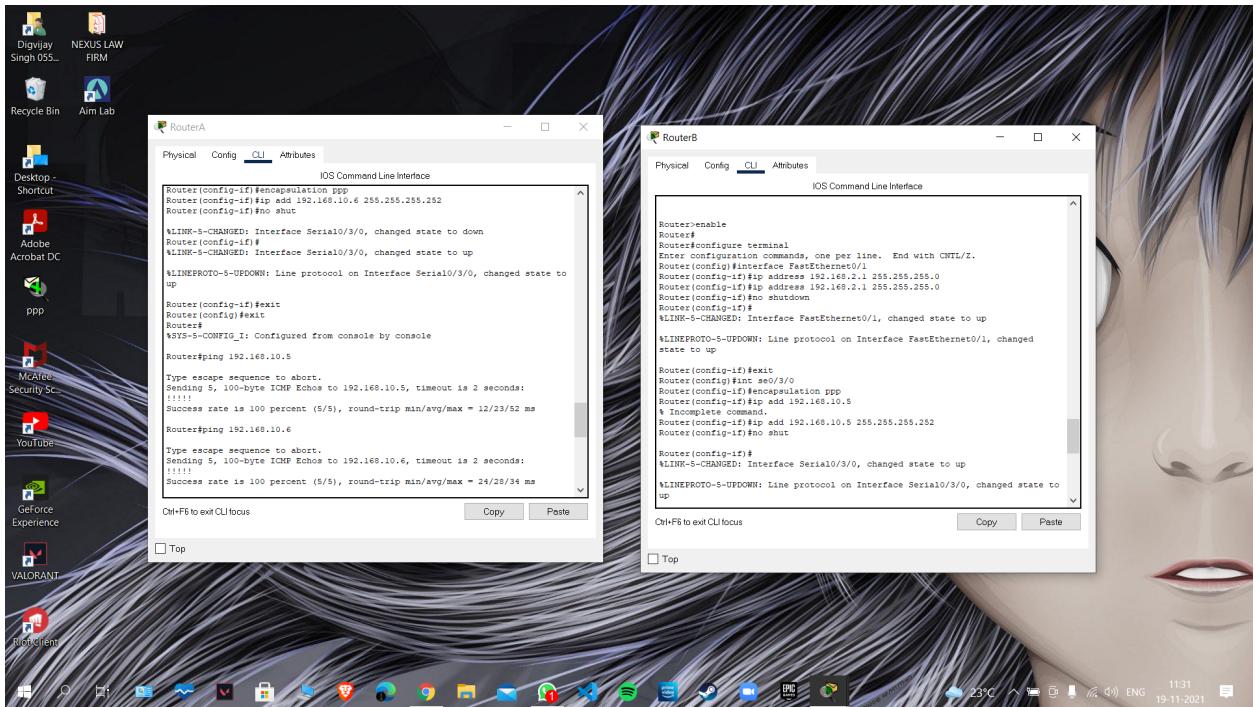
```
%LINK-3-CHANGED: Interface Serial0/3/0, changed state to up
%LINKPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#exit
Router(config)#exit
Router(config)#interface Serial0/3/0
Router(config-if)#

Router con0 is now available

Press RETURN to get started.
```

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RouterA

```
Router#config-if#encapsulation ppp
Router(config-if)#ip add 192.168.10.6 255.255.255.252
Router(config-if)#shut
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to down
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up
Router(config-if)#exit
Router(config)#exit
Router#
SYS-3-CONFIG_I: Configured from console by console

Router#ping 192.168.10.5
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.10.5, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 12/23/52 ms

Router#ping 192.168.10.6
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.10.6, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 24/20/34 ms
```

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RouterB

```
Router#enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
Router(config-if)#
Router(config-if)#exit
Router(config)#int seo/3/0
Router(config-if)#encapsulation ppp
Router(config-if)#ip add 192.168.10.5
% Incomplete command.
Router(config-if)#ip add 192.168.10.5 255.255.255.252
Router(config-if)#
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up
```

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