Exercise – 11 HDLC-Configuration

Aim
To Configure HDLC Protocol

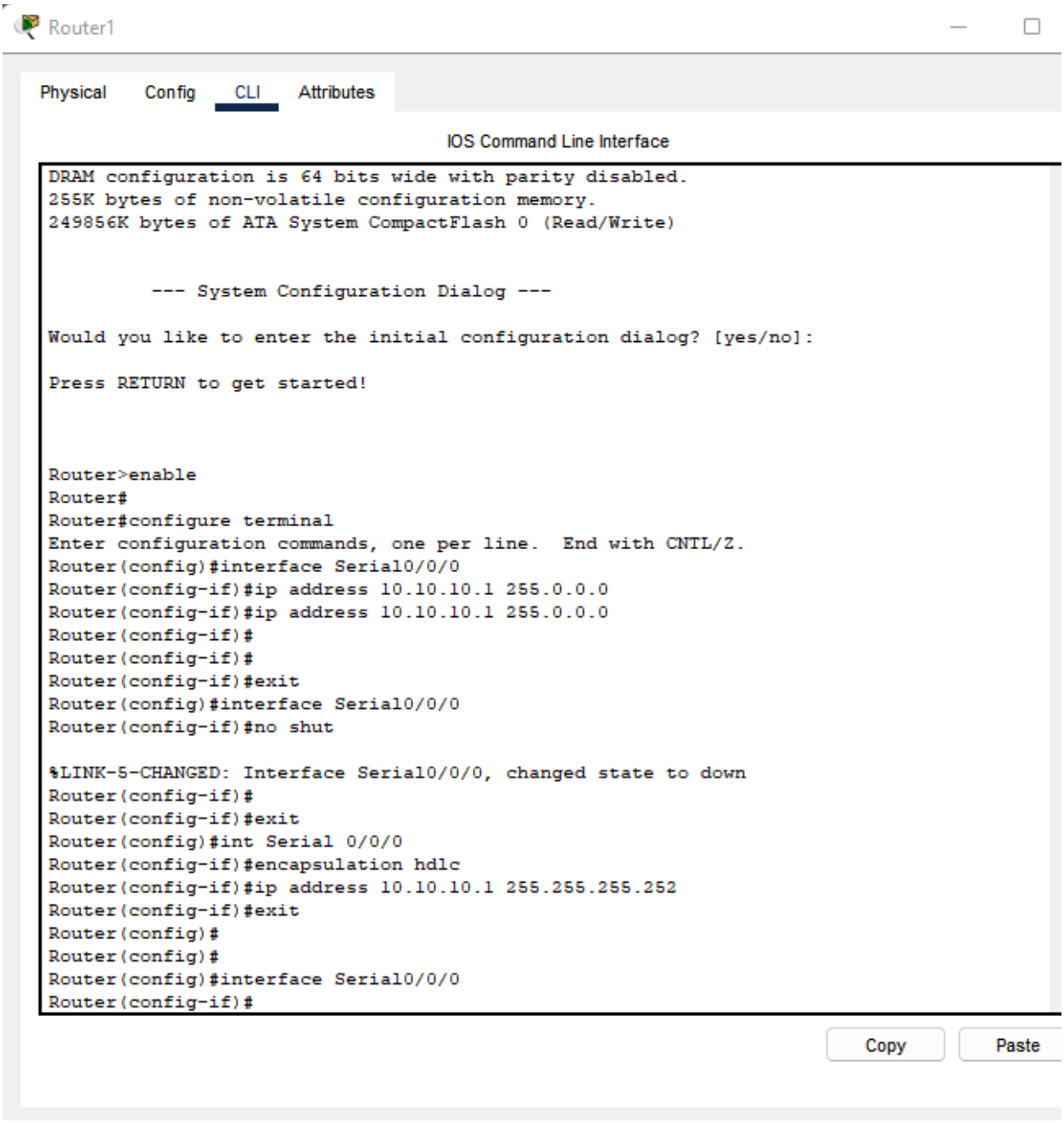
Prerequisite:
HDLC Protocol

Procedure:

1. From the Network Devices category, select routers, and from the devices drag 2 routers into the workspace.
2. Connect connect routers using serial DTE cables.
3. To configure Cisco HDLC, firstly we will enable HDLC under the interface and after that, we will configure interface ip addresses. To enable HDLC, we will use "encapsulation hdlc" command under the interface. Here, we will do this under serial 0/0/0 interface.

4. Use the following commands to configure the router R1 using CLI

```
Router1>enable
Router1# configure terminal
Router1(config) # interface Serial 0/0/0
Router1(config-if) # encapsulation hdlc
Router1(config-if) # ip address 10.10.10.1 255.255.255.252
Router1(config-if) # exit
```


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
DRAM configuration is 64 bits wide with parity disabled.
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)
--- System Configuration Dialog ---
Would you like to enter the initial configuration dialog? [yes/no]:
Press RETURN to get started!
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 10.10.10.1 255.0.0.0
Router(config-if)#ip address 10.10.10.1 255.0.0.0
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#no shut
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Router(config-if)#
Router(config-if)#exit
Router(config)#int Serial 0/0/0
Router(config-if)#encapsulation hdlc
Router(config-if)#ip address 10.10.10.1 255.255.255.252
Router(config-if)#exit
Router(config)#
Router(config)#
Router(config)#interface Serial0/0/0
Router(config-if)#
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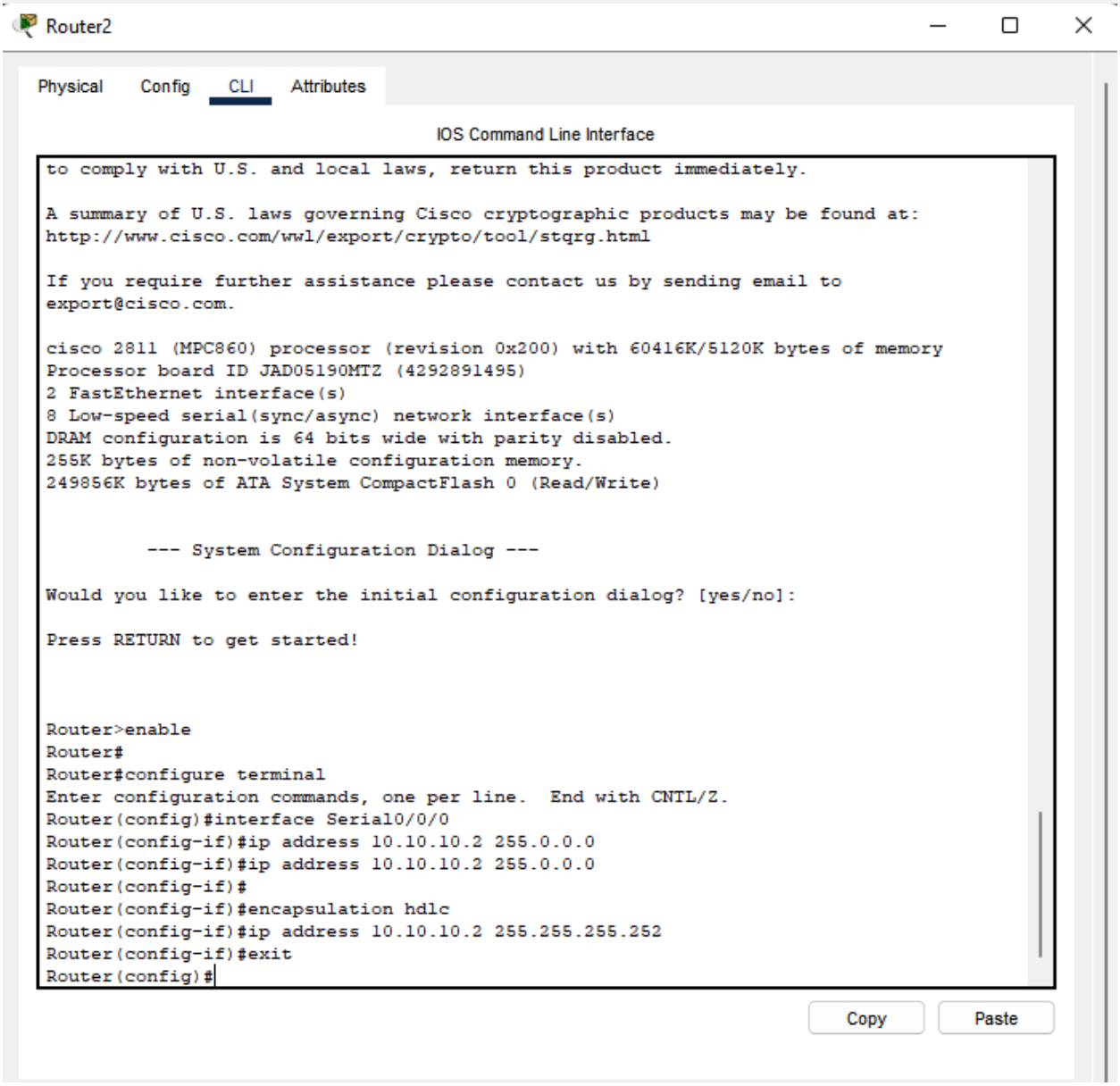
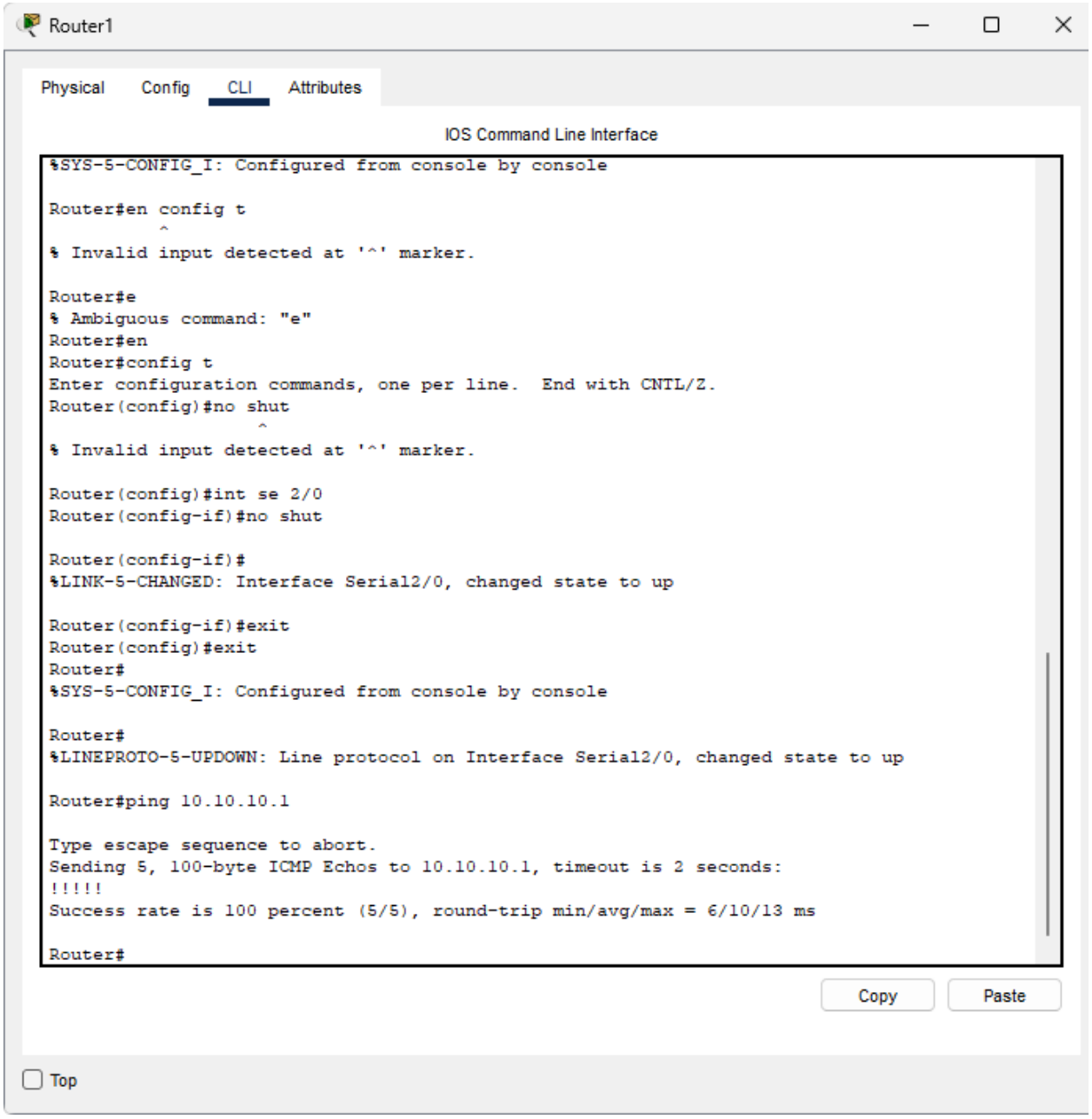
5. Use the following commands to configure the router R2 using CLI

```
Router2>enable
Router2# configure terminal
Router2(config) # interface Serial 0/0/0
Router2(config-if) # encapsulation hdlc
Router2(config-if) # ip address 10.10.10.2 255.255.255.252
Router2(config-if) # exit
```



6. To verify Cisco HDLC configuration, on both routers we will use ping command.



CONCLUSION

We have successfully configured PPP configuration on two router using cisco packet tracer.