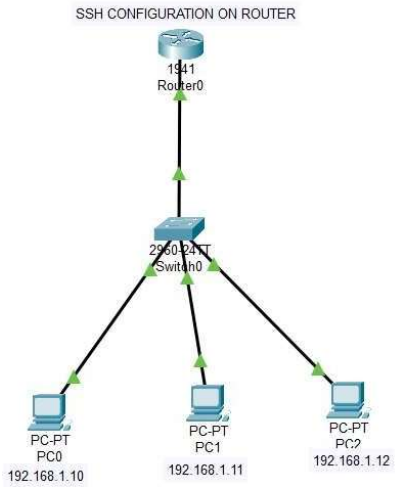
ASSIGNMENT 5

1)Generate SSH on Router

SSH is a security mechanism which can be used to access the privilege and configuration mode of a router and a switch from a remote location to perform the required action. The primary aim to configure SSH is to access devices deployed in a network from a remote location so that the required configuration can be performed and resources can be provided ina seamless manner.

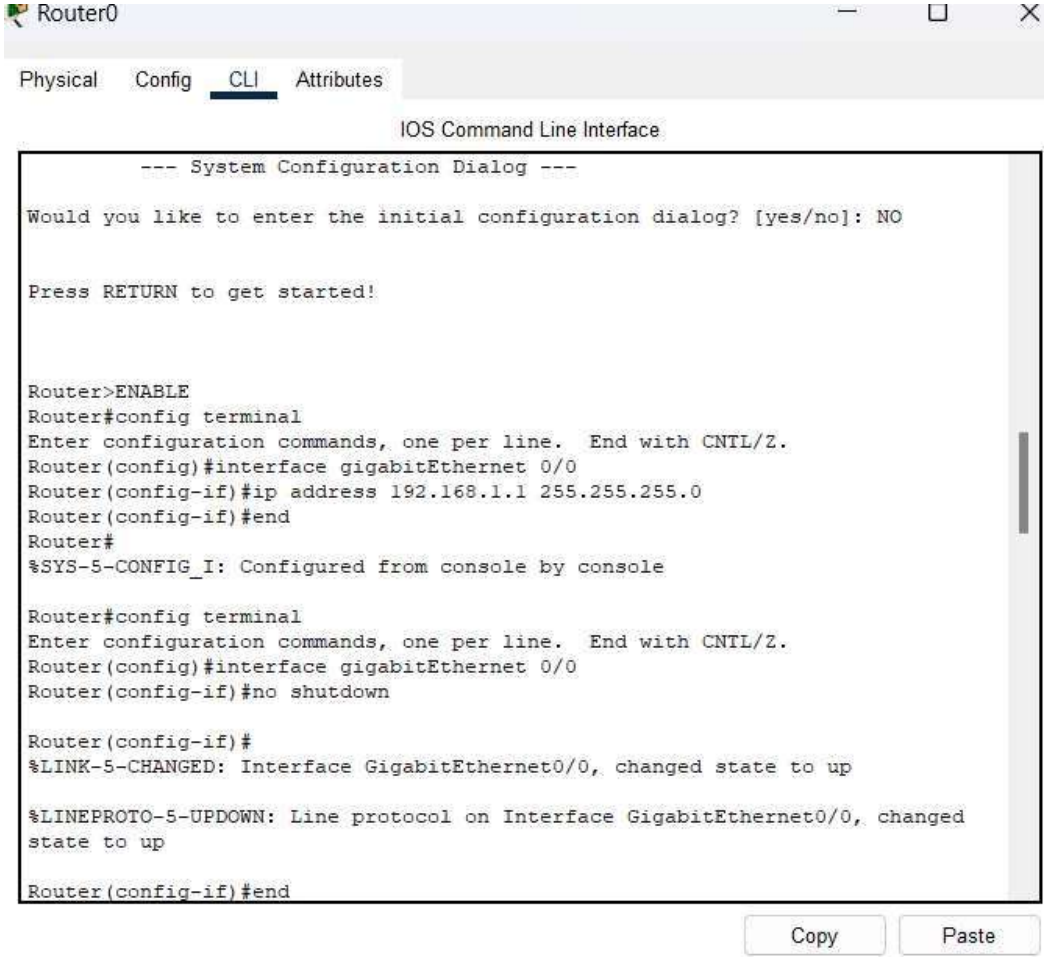
PROCESS:

1) Connect the devices in network as shown in figure below.



2) Desktop settings of the Computer System need to be accessed to assign it with IP address,associated subnet mask and gateway address of the network.

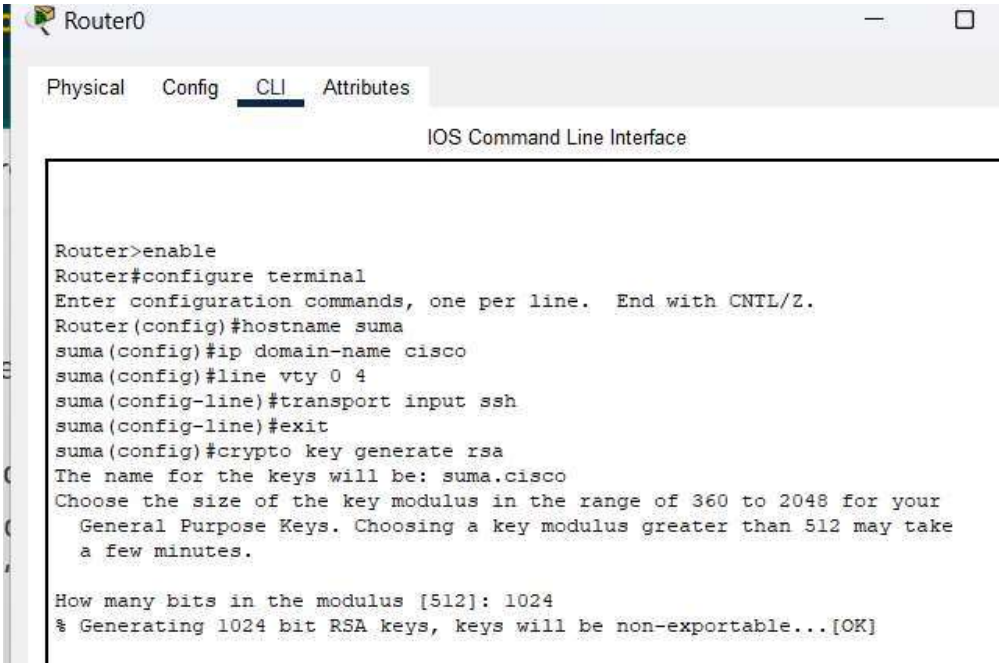
3) Run following commands in CLI of router.


Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
--- System Configuration Dialog ---
Would you like to enter the initial configuration dialog? [yes/no]: NO
Press RETURN to get started!
Router>ENABLE
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface gigabitEthernet 0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface gigabitEthernet 0/0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
Router(config-if)#end
Copy
Paste

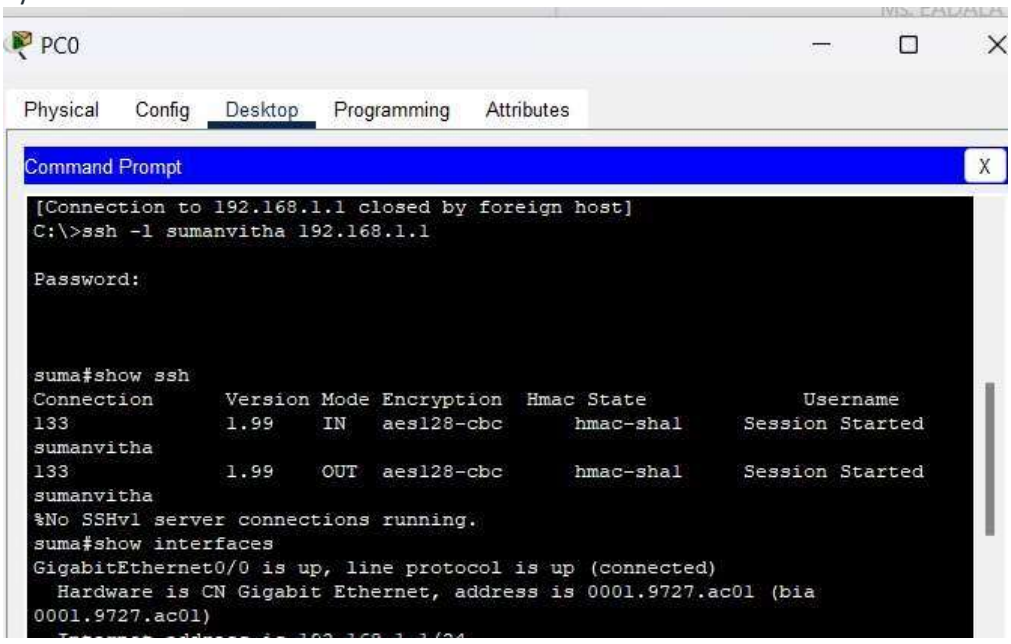
```
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#wr
Building configuration...
[OK]
Router#
Router#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#line vty 0 4
Router(config-line)#login local
Router(config-line)#password cisco
Router(config-line)#exit
Router(config)#username sumanvitha privilege 4 password cisco
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#wr
Building configuration...
[OK]
Router#
```

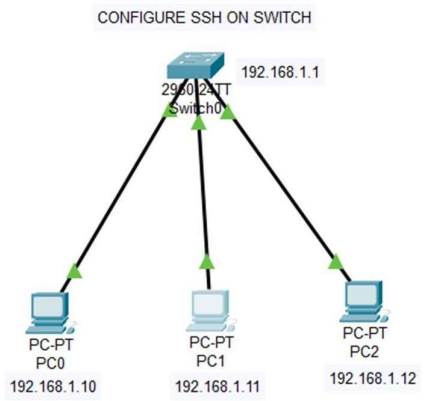


4) To test the SSH configured on Cisco Router, Command Prompt is opened on Computer System and the 'ssh -l username IP-address' command is executed.



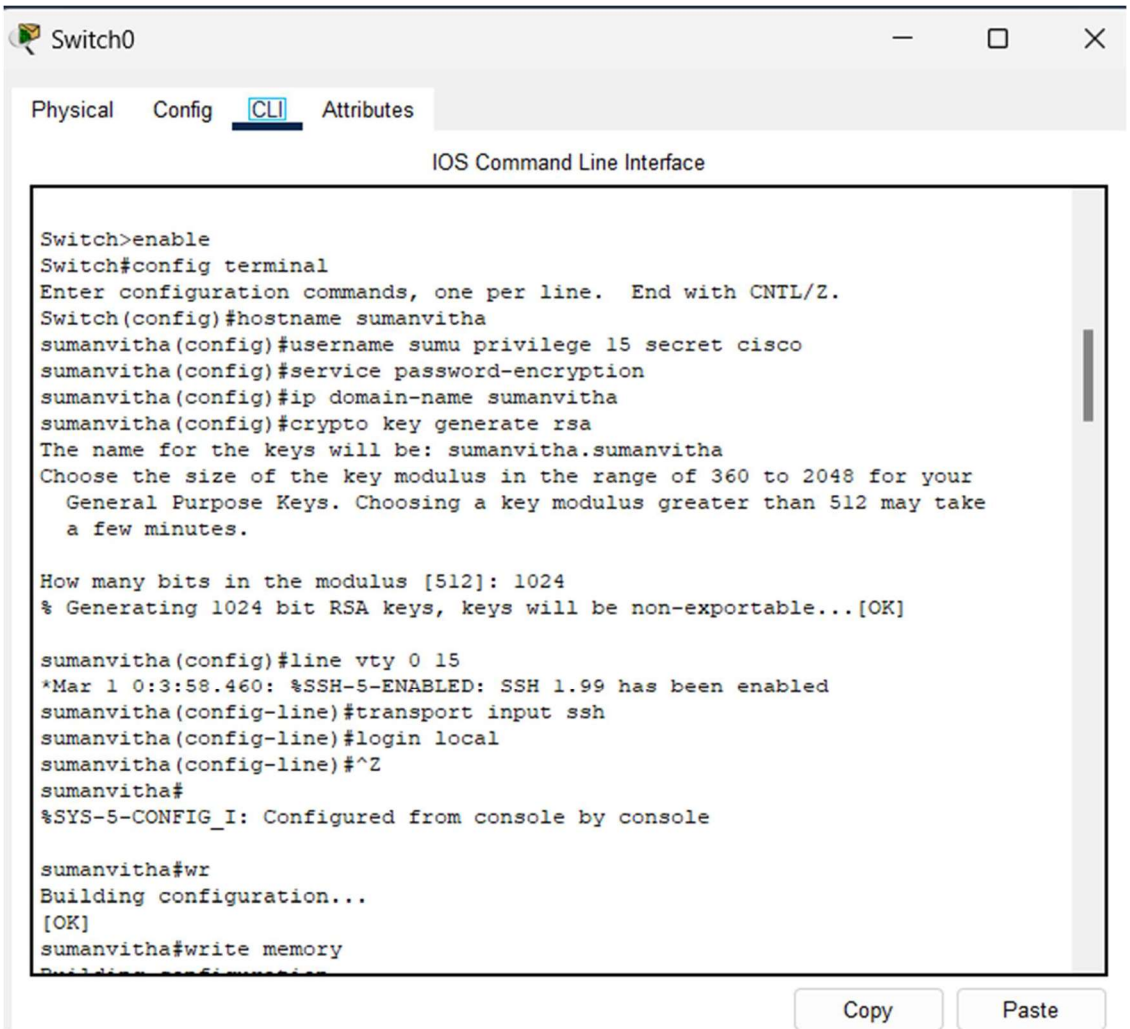
2)Generate SSH on switch.

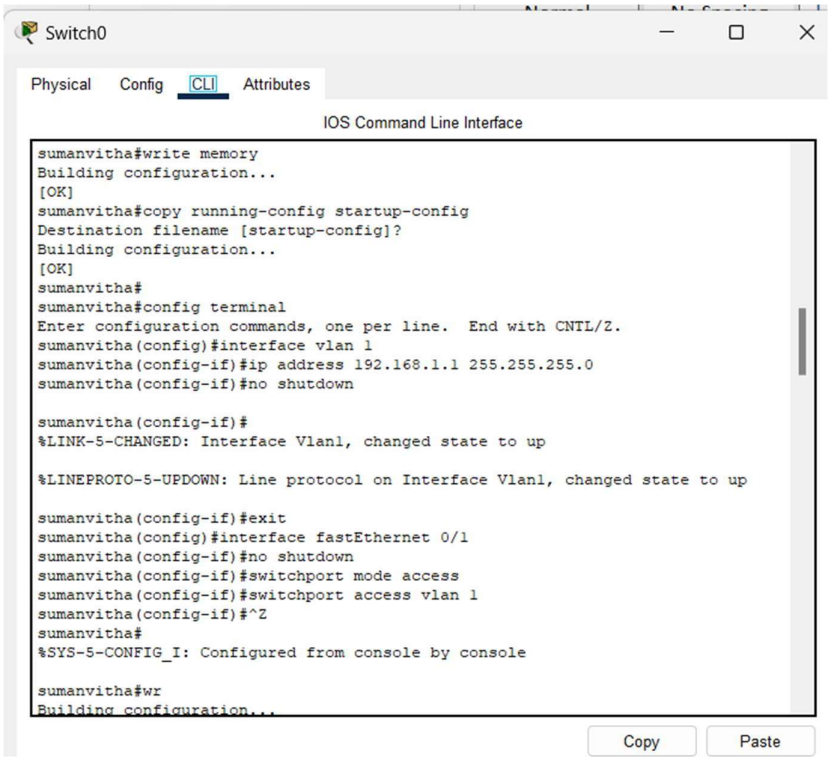
1) Connect the devices in network as shown in figure below.



2) Desktop settings of the Computer System need to be accessed to assign it with IP address,associated subnet mask and gateway address of the network.

3) Run following commands in CLI of switch.





4) To test the SSH configured on Cisco Switch, Command Prompt is opened on Computer System and the 'ssh -l username IP-address' command is executed.