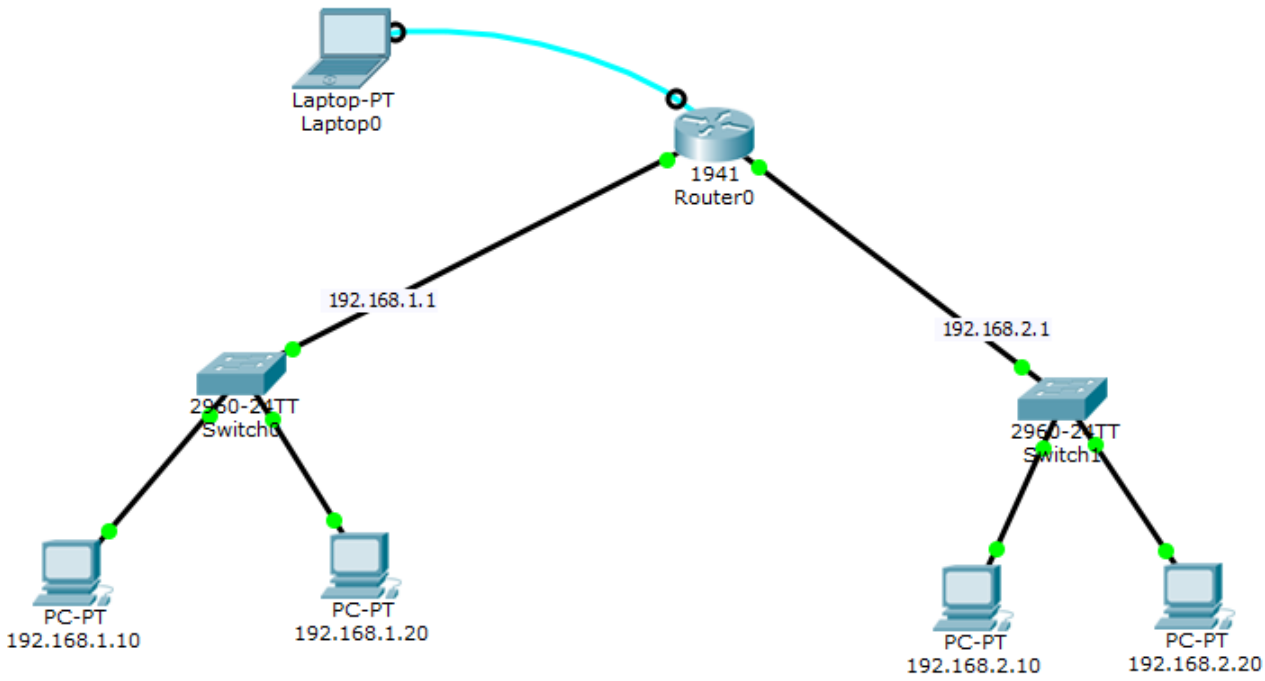
Experiment No. 07

Object:

a. To take console of Router using Console cable
b. To assign Ip Address to interfaces of Router using CLI mode.
c. To allow telnet of the Router to connected End-Devices

Date: March 17, 2018

Configuration Figure:



Coding:

```
         --- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#line
Router(config)#line c
Router(config)#line console 0
Router(config-line)#logi
Router(config-line)#login lo
Router(config-line)#login local
```

```
Router(config-line)#username ali password 1234
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#ex


Router con0 is now available

Press RETURN to get started.



User Access Verification

Username: ali
Password:

Router>en
Router#conf t
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)#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)#ex
Router(config)#interface gigabitEthernet 0/1
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
ex
Router(config)#
Router(config)#line vty 0 5
Router(config-line)#transport input telnet
Router(config-line)#login local
Router(config-line)#username ali password 1234
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

```
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#enable sec
Router(config)#enable secret 1234
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console
ex


Router con0 is now available

Press RETURN to get started.



User Access Verification

Username:
```

Telnet:

```
Packet Tracer PC Command Line 1.0
PC>telnet 192.168.1.1
Trying 192.168.1.1 ...Open


User Access Verification

Username:
% Username:  timeout expired!

[Connection to 192.168.1.1 closed by foreign host
PC>telnet 192.168.1.1
Trying 192.168.1.1 ...Open


User Access Verification

Username: ali
Password:
Router>en
Password:
Router#
```

```
Packet Tracer PC Command Line 1.0
PC>telnet 192.168.2.1
Trying 192.168.2.1 ...Open


User Access Verification

Username:
% Username:  timeout expired!

[Connection to 192.168.2.1 closed by foreign host]
PC>telnet 192.168.2.1
Trying 192.168.2.1 ...Open


User Access Verification

Username: ali
Password:
Router>en
Password:
Router#
```

Ping Test:

```
PC>ping 192.168.2.1

Pinging 192.168.2.1 with 32 bytes of data:

Reply from 192.168.2.1: bytes=32 time=1ms TTL=255
Reply from 192.168.2.1: bytes=32 time=0ms TTL=255
Reply from 192.168.2.1: bytes=32 time=0ms TTL=255
Reply from 192.168.2.1: bytes=32 time=0ms TTL=255

Ping statistics for 192.168.2.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>ping 192.168.2.10

Pinging 192.168.2.10 with 32 bytes of data:

Reply from 192.168.2.10: bytes=32 time=1ms TTL=128
Reply from 192.168.2.10: bytes=32 time=0ms TTL=128
Reply from 192.168.2.10: bytes=32 time=0ms TTL=128
Reply from 192.168.2.10: bytes=32 time=0ms TTL=128

Ping statistics for 192.168.2.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

Reply from 192.168.1.10: bytes=32 time=0ms TTL=127
Reply from 192.168.1.10: bytes=32 time=0ms TTL=127
Reply from 192.168.1.10: bytes=32 time=0ms TTL=127
Reply from 192.168.1.10: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=0ms TTL=255
Reply from 192.168.1.1: bytes=32 time=0ms TTL=255
Reply from 192.168.1.1: bytes=32 time=0ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>
```