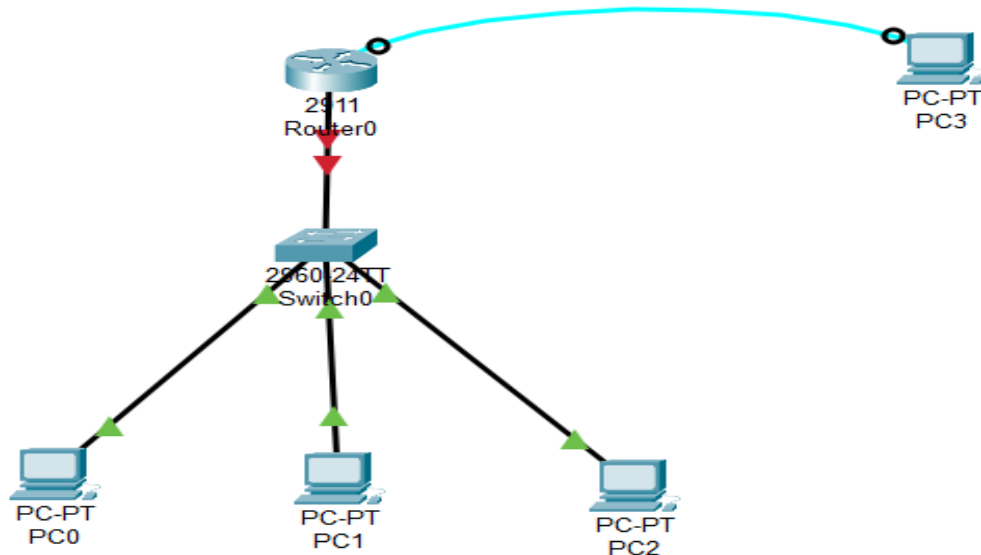


## Practical No. – 03

**Objective:-** Performing Router configuration using CISCO Packet Tracer.

**Topology Diagram:-**



**Source Code:-**

1. Configuring the name of Router.

```
Router>enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Deepanshu
Deepanshu(config)#no hostname
Router(config)#hostname Deepanshu
Deepanshu(config)#exit
Deepanshu#
%SYS-5-CONFIG_I: Configured from console by console
Deepanshu#
```

2. Configure the banner message.

```
Deepanshu#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Deepanshu(config)#banner motd #Authorize Access Only! #
Deepanshu(config)#exit
Deepanshu#
%SYS-5-CONFIG_I: Configured from console by console
```

### 3. Securing the User-Execution Mode.

```
Authorize Access Only!

Deepanshu>enable
Deepanshu#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Deepanshu(config)#line console 0
Deepanshu(config-line)#password Deepanshu
Deepanshu(config-line)#login
Deepanshu(config-line)#end
Deepanshu#
%SYS-5-CONFIG_I: Configured from console by console

Deepanshu#
```

```
Authorize Access Only!

User Access Verification

Password:

Deepanshu>
```

### 4. Securing Privileged Exec. Mode.

```
Authorize Access Only!

Deepanshu>enable
Deepanshu#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Deepanshu(config)#enable secret Deepanshu
Deepanshu(config)#exit
Deepanshu#
%SYS-5-CONFIG_I: Configured from console by console

Deepanshu#exit
```

```
Authorize Access Only!

Deepanshu>enable
Password:
Deepanshu#
```

## 5. Securing Remote Access.

```
Authorize Access Only!

Deepanshu>enable
Deepanshu#enable
Deepanshu#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Deepanshu(config)#line vty 0 15
Deepanshu(config-line)#password Deepanshu
Deepanshu(config-line)#login
Deepanshu(config-line)#end
Deepanshu#
%SYS-5-CONFIG_I: Configured from console by console

Deepanshu#exit
```

## 6. Checking the configurations.

```
Authorize Access Only!

Deepanshu>enable
Deepanshu#show running-config
Building configuration...
```

```
!
!
banner motd ^CAuthorize Access Only! ^C
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
  password Deepanshu
  login
line vty 5 15
  password Deepanshu
  login
!
!
!
end

Deepanshu#
```

7. Encrypting all the passwords.

```
Deepanshu#
Deepanshu#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Deepanshu(config)#service password-encryption
Deepanshu(config)#exit
Deepanshu#
%SYS-5-CONFIG_I: Configured from console by console

Deepanshu#show running-config
Building configuration...

Current configuration : 1033 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname Deepanshu
!
```

8. Configure and Enable a Router Interface with an IP Address and a Description.

```
Authorize Access Only!

Deepanshu>enable
Deepanshu#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Deepanshu(config)#interfaces
^
% Invalid input detected at '^' marker.

Deepanshu(config)#interface gigabitethernet 0/0
Deepanshu(config-if)#description link to connect LAN1
Deepanshu(config-if)#ip address 192.168.1.1 255.255.255.0
Deepanshu(config-if)#no shutdown

Deepanshu(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

Deepanshu(config-if)#
```

