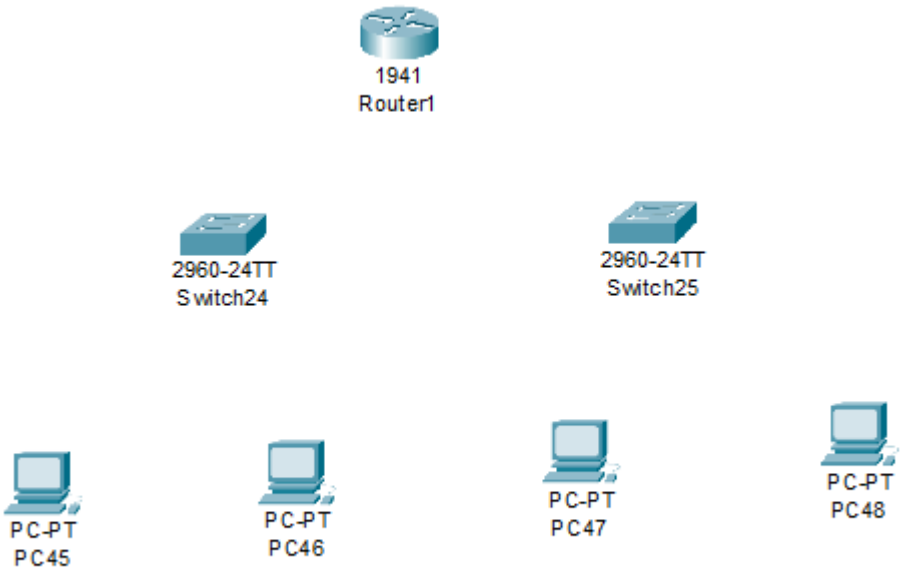
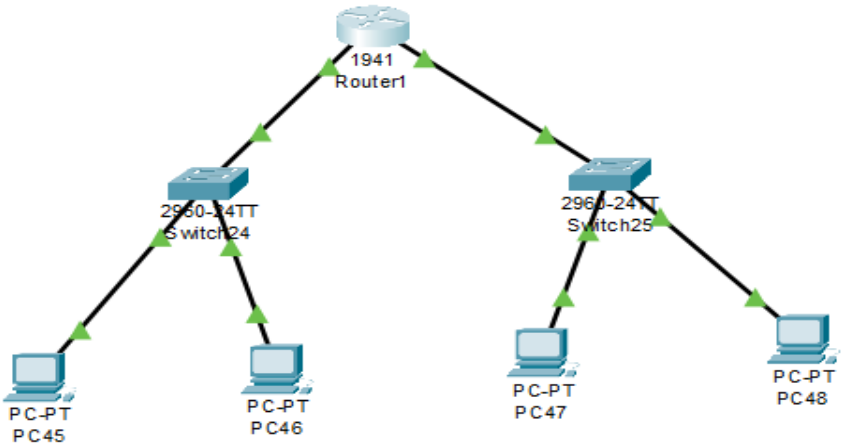
Experiment-1

Configuration of Network Devices using Packet Tracer tools (Hub, Switch, Ethernet, Broadcast).

Step 1: 1 router,2 switch and 4 PCs



Step2: connect switch to router giga ethernet and switches to PCs fast Ethernet



Step3: Ip address for router

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         --- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: no


Press RETURN to get started!



Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface g0/0
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 GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#interface g0/1
Router(config-if)#ip address 192.168.3.1 255.255.255.0
Router(config-if)#shutdown
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
%IP-4-DUPADDR: Duplicate address 192.168.2.1 on GigabitEthernet0/0, sourced by 00D0.BC5C.2718

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down
```

Step3: give Ip address for each pc and default gate way

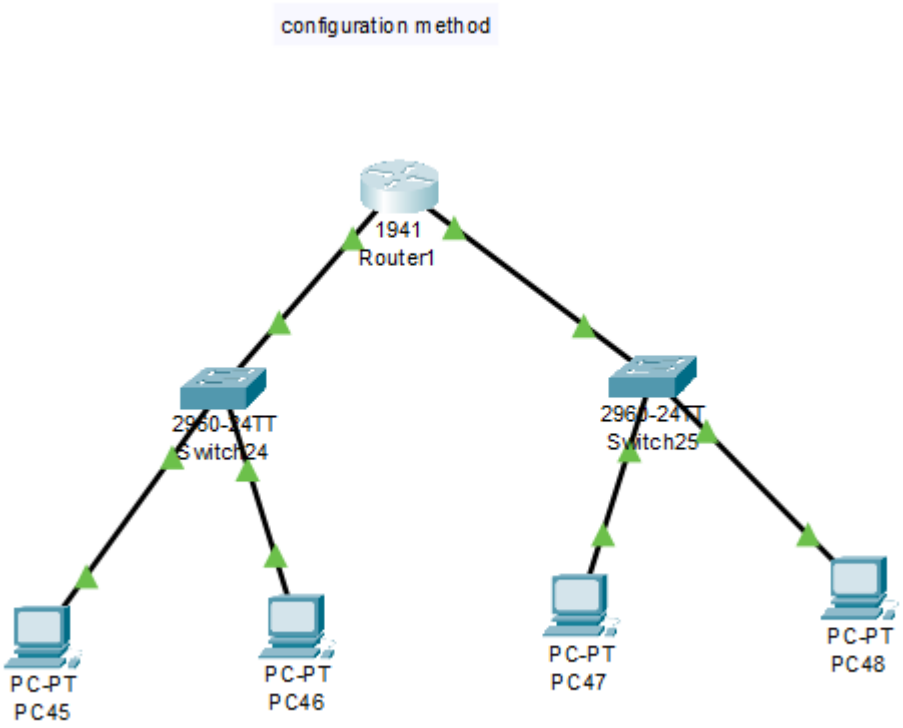
IP address for pc0:192.168.2.10 gateway:192.168.2.1

IP address for pc1: 192.168.2.11 gateway:192.168.2.1

IP address for pc2: 192.168.3.10 gateway:192.168.3.1

IP address for pc3: 192.168.3.11 gateway:192.168.3.1

Step4: allocate the messages



Result: The message sent successfully from one pc to another pc