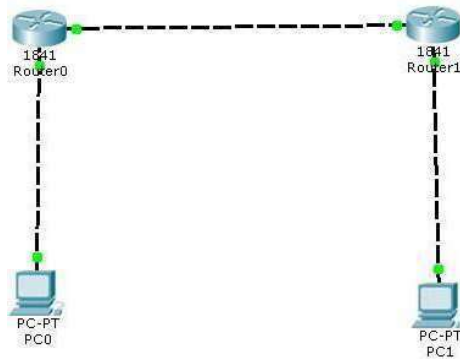


Consider the following network



We configure it as follows

### Step 1: (configure PC 0)

The screenshot shows the 'IP Configuration' window for PC0. The 'Static' radio button is selected under 'IP Configuration'. The 'IPv6 Configuration' section has 'Static' selected, and the 'Link Local Address' is set to 'FE80::201:C9FF:FE5B:90A4'.

IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	10.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	10.0.0.1
DNS Server	

IPv6 Configuration		
<input type="radio"/> DHCP	<input type="radio"/> Auto Config	<input checked="" type="radio"/> Static
IPv6 Address		
Link Local Address	FE80::201:C9FF:FE5B:90A4	
IPv6 Gateway		
IPv6 DNS Server		

## Step 2: (configure PC 1)



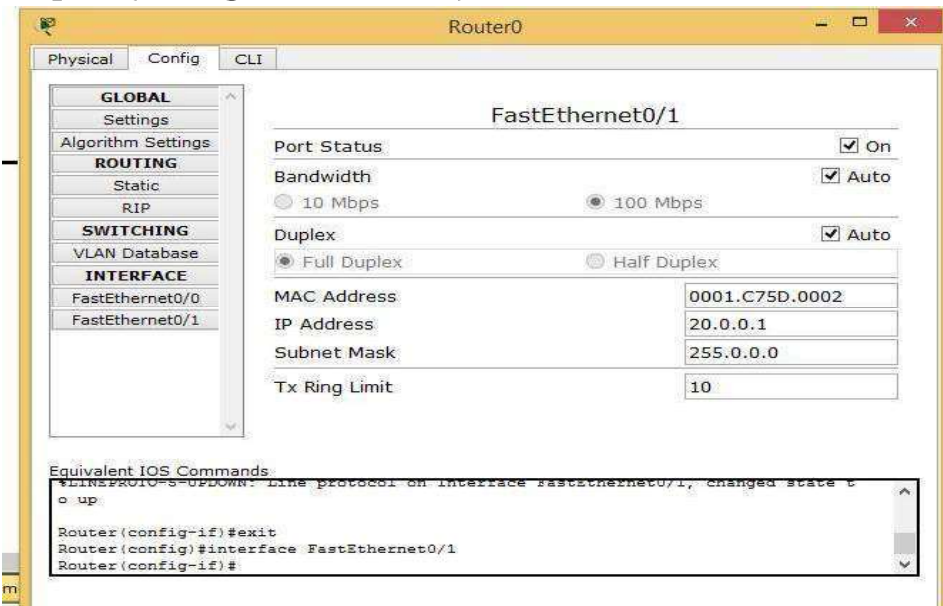
The screenshot shows the 'IP Configuration' window for PC1. It has two main sections: 'IP Configuration' and 'IPv6 Configuration'. In the 'IP Configuration' section, the 'Static' radio button is selected. The fields are filled with: IP Address: 30.0.0.2, Subnet Mask: 255.0.0.0, Default Gateway: 30.0.0.1, and DNS Server: (empty). In the 'IPv6 Configuration' section, the 'Static' radio button is selected. The fields are: IPv6 Address: (empty), Link Local Address: FE80::201:63FF:FE9A:3877, IPv6 Gateway: (empty), and IPv6 DNS Server: (empty).

IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	30.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	30.0.0.1
DNS Server	

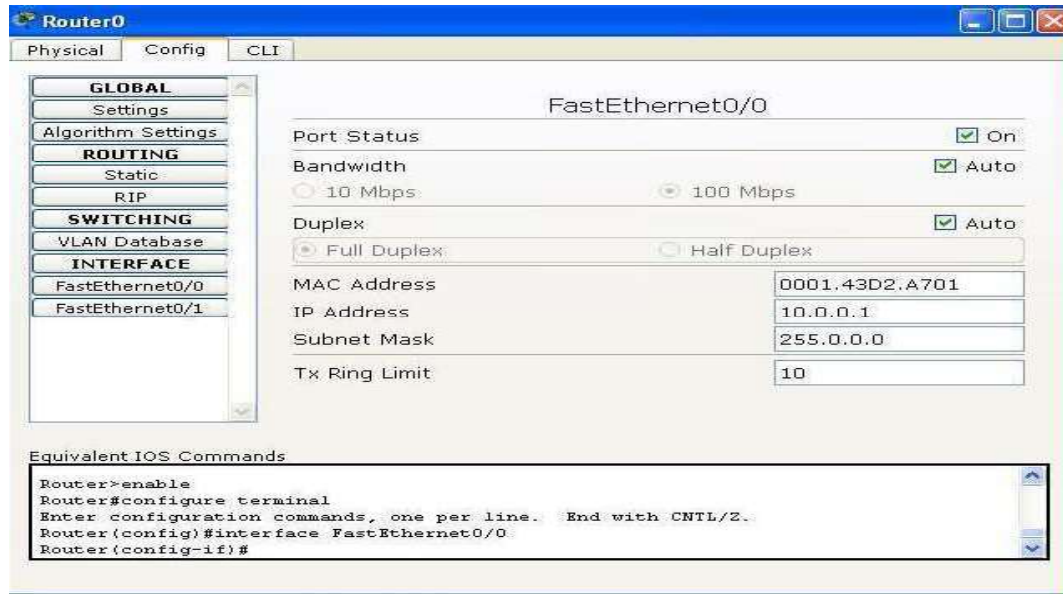
IPv6 Configuration		
<input type="radio"/> DHCP	<input type="radio"/> Auto Config	<input checked="" type="radio"/> Static
IPv6 Address		
Link Local Address	FE80::201:63FF:FE9A:3877	
IPv6 Gateway		
IPv6 DNS Server		

## Step 3: (configure Router 0)

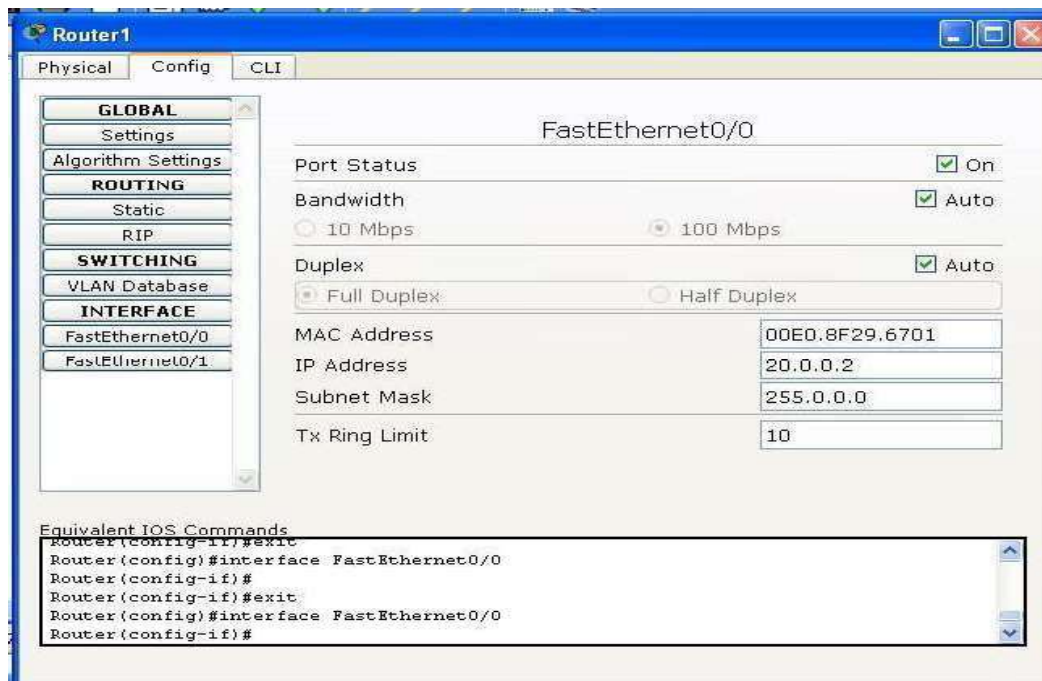


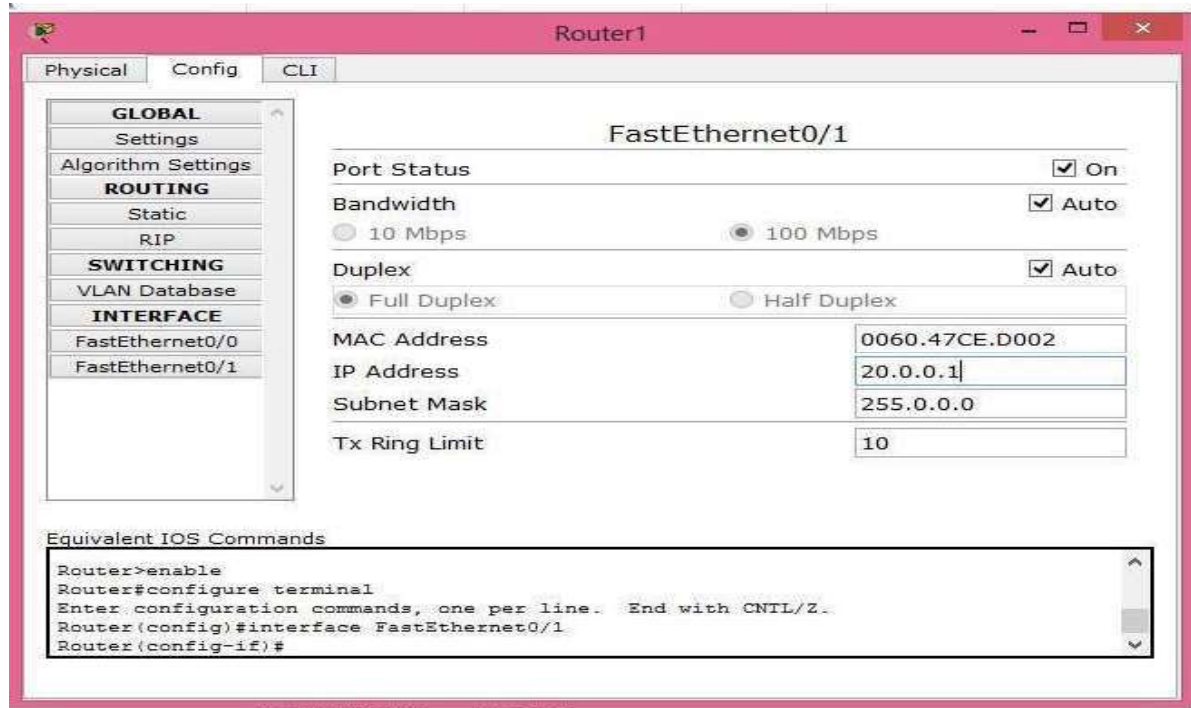
The screenshot shows the 'Router0' configuration window. The 'Config' tab is active, and the 'FastEthernet0/1' interface is selected. The 'Port Status' is 'On', 'Bandwidth' is 'Auto', 'Duplex' is 'Auto', and 'Tx Ring Limit' is '10'. The 'MAC Address' is '0001.C75D.0002', 'IP Address' is '20.0.0.1', and 'Subnet Mask' is '255.0.0.0'. The 'Equivalent IOS Commands' section shows the following commands:

```
Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 20.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#
```

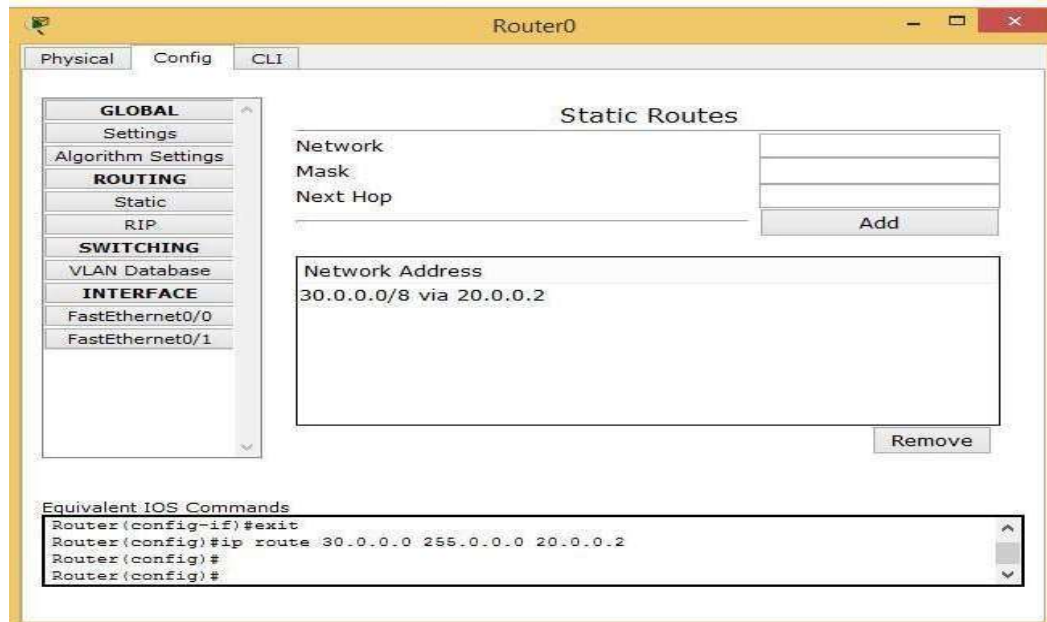


#### Step 4: (configure Router 1)

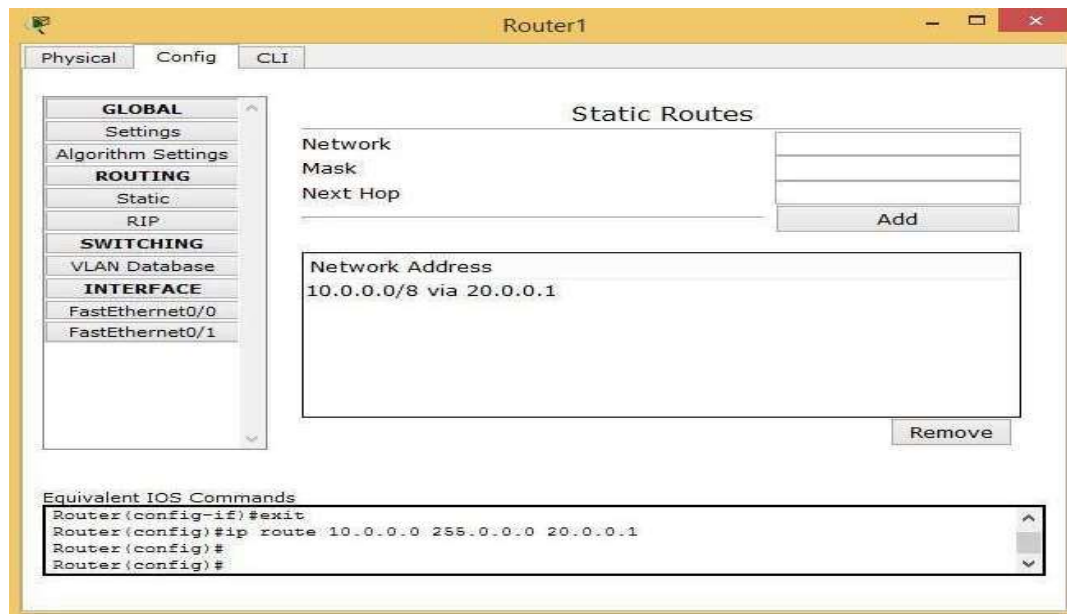




The routing table is configured in the following way For router 0



## For router 1



Now we can give the ping command as shown to check the connectivity

