JAVAIRIA REHMAN

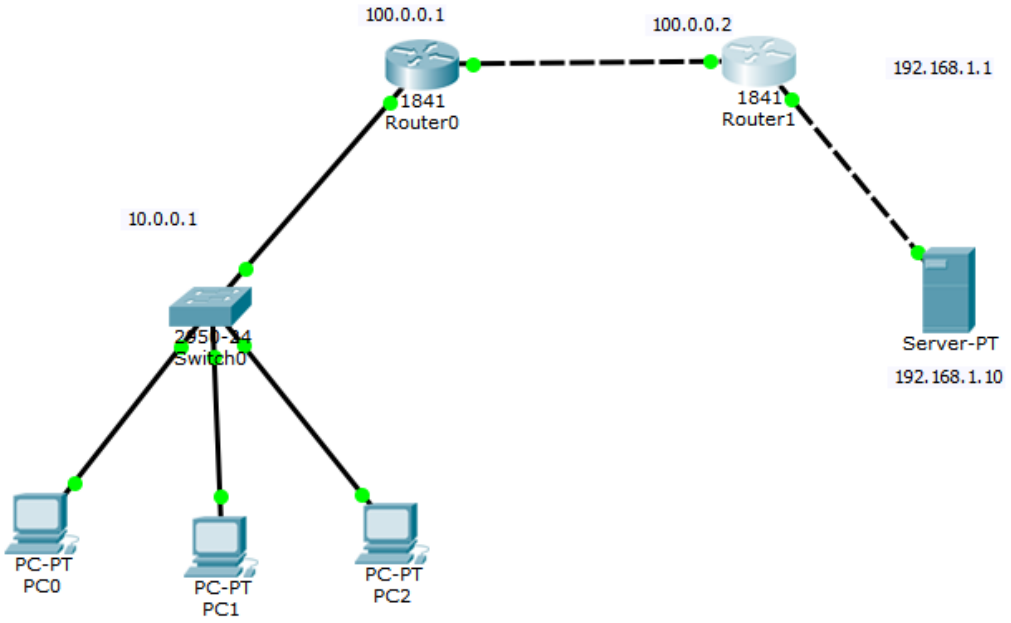
19P-0020

BS(CS) 19-5A

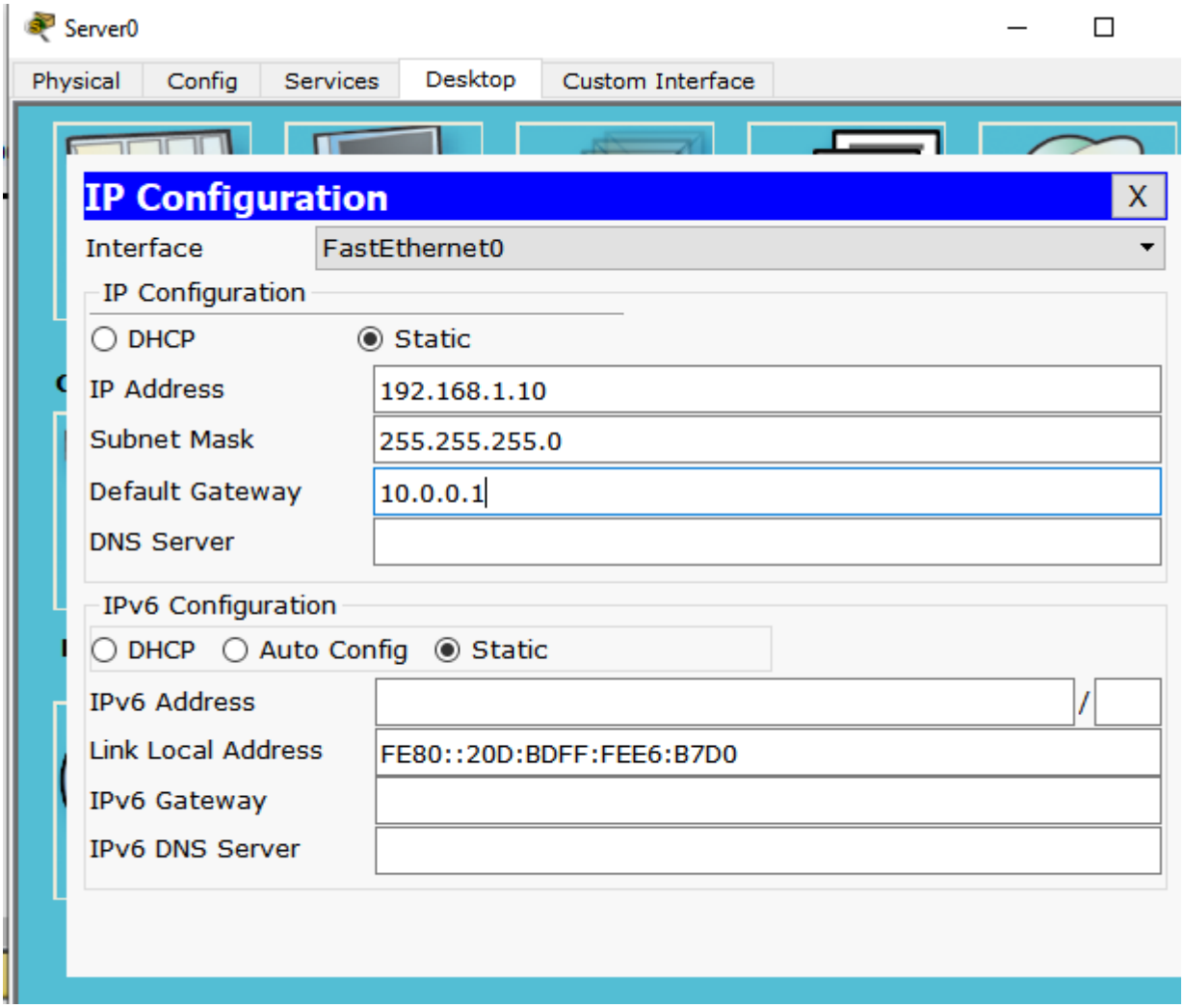
"COMPUTER NETWORK LAB "

LAB 6 HOME WORK

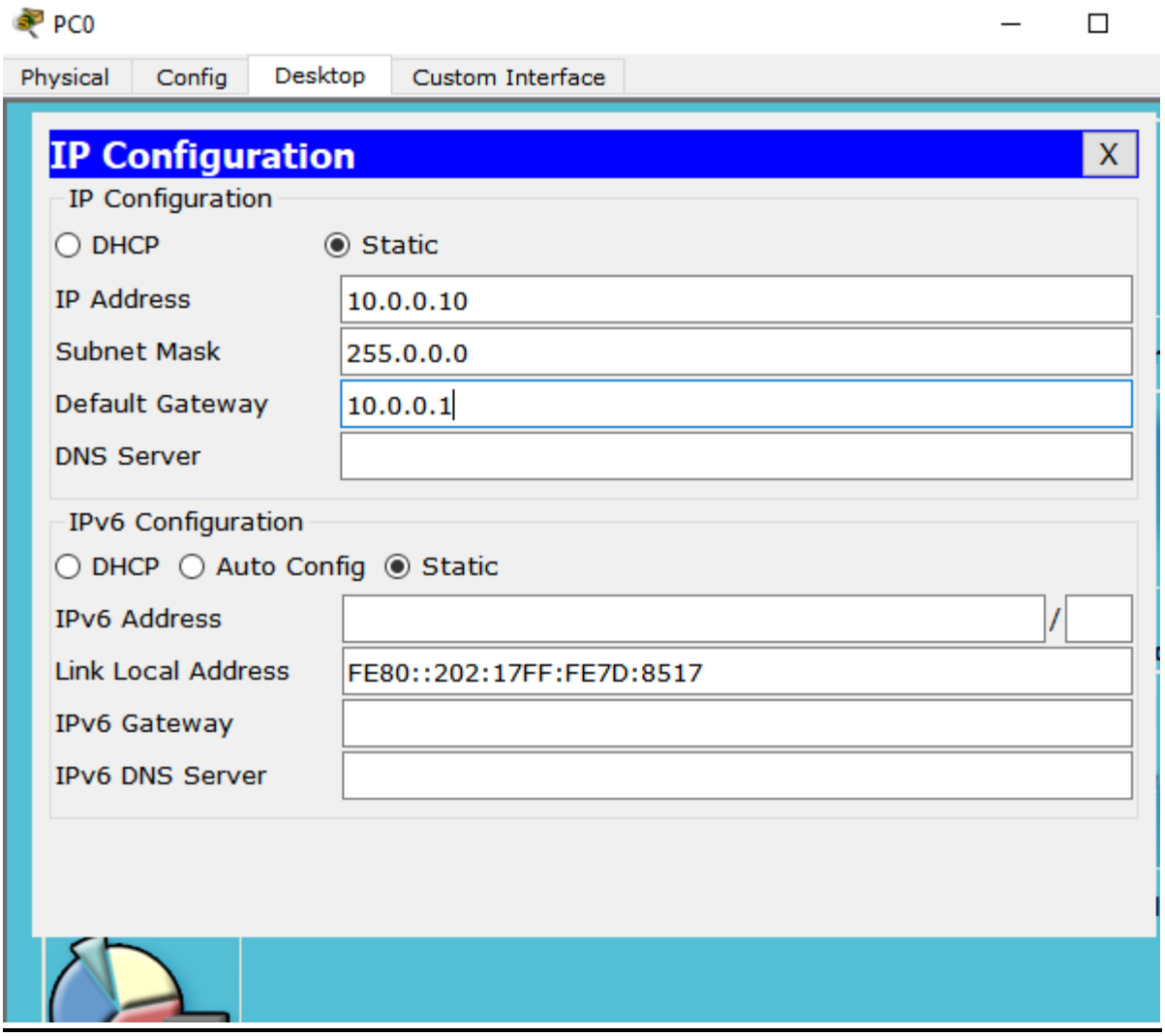
STEP 1 SINERIO



STEP 2 assigning ip to server



assigning ip to pc



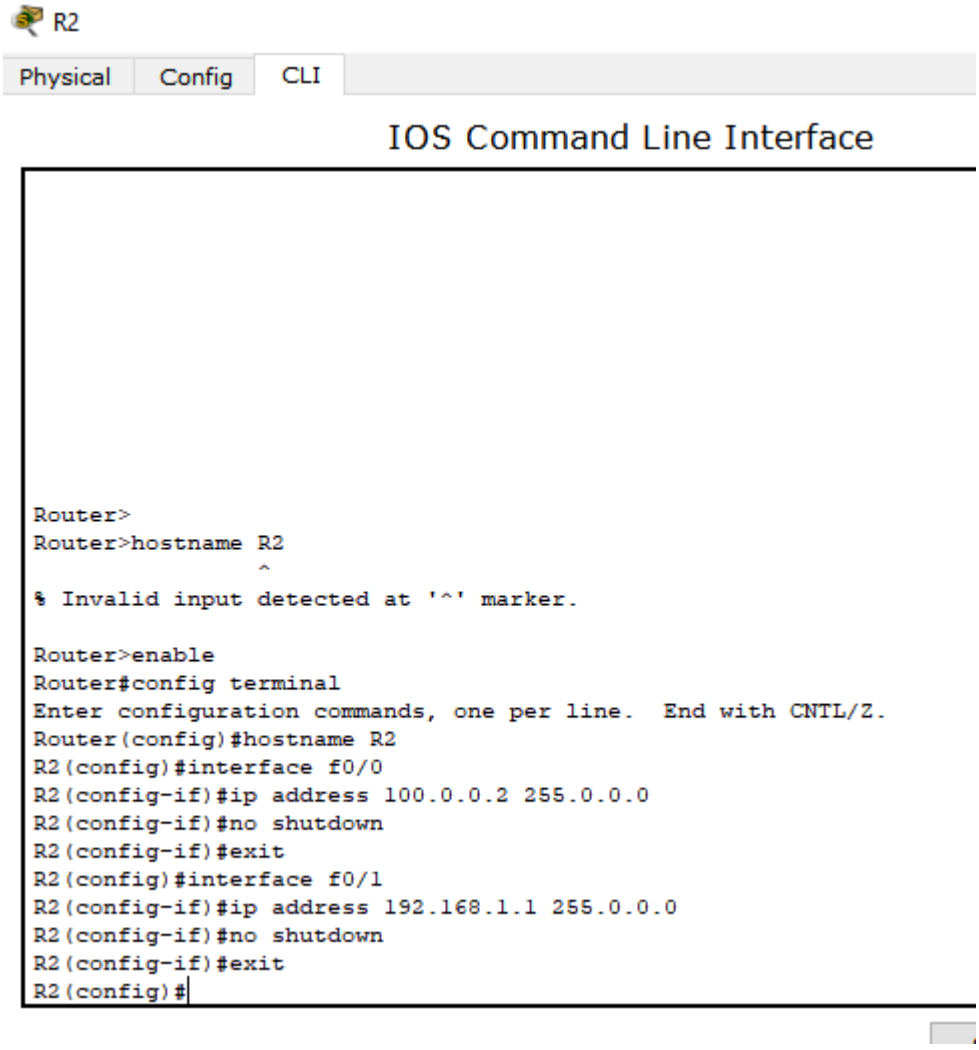
Step 3 changing in router CLI(both routers):

Router1

```
Router>enable
Router#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R1
R1(config)#interface f0/1
R1(config-if)#ip address 10.0.0.1 255.0.0.0
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#sn
```

```
Router>enable
Router#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R1
R1(config)#interface f0/1
R1(config-if)#ip address 10.0.0.1 255.0.0.0
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#
R1(config)#interface f0/0
R1(config-if)#ip address 100.0.0.1 255.0.0.0
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#
```

Router 2



Step 4 static configuration of NAT

- ## Define IP address mapping

```
R1(config)#
R1(config)#ip nat inside source static 10.0.0.10 50.0.0.10
R1(config)#
```

- ## 3. Define inside local interface

```
R1(config-if)#ip nat inside
R1(config-if)#no shutdown
R1(config-if)#ex
R1(config)#
```

-
- ## 4. Define inside global interface

```
R1(config)#interface f0/0
R1(config-if)#ip nat outside
R1(config-if)#no shutdown
R1(config-if)#ex
```

Router 2

```
Router>enable
Router#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R2
R2(config)#interface f0/0
R2(config-if)#ip address 100.0.0.2 255.0.0.0
R2(config-if)#no shutdown
R2(config-if)#exit
R2(config)#interface f0/1
R2(config-if)#ip address 192.168.1.1 255.0.0.0
R2(config-if)#no shutdown
R2(config-if)#exit
R2(config)#
R2(config)#
R2(config)#ip nat inside source static 192.168.1.10 200.0.0.10
R2(config)#interface f0/1
R2(config-if)#ip nat outside
R2(config-if)#no shutdown
R2(config-if)#ex
R2(config)#interface f0/0
R2(config-if)#ip nat inside
R2(config-if)#no shutdown
R2(config-if)#ex
R2(config)#
```

Configure r1 and r2

```
R1(config)#ip route 200.0.0.0 255.255.255.0 100.0.0.2
R1(config)#
```

```
R2(config)#ip route 50.0.0.0 255.0.0.0 100.0.0.1
R2(config)#
```

Check from command promp of any pc using ping command