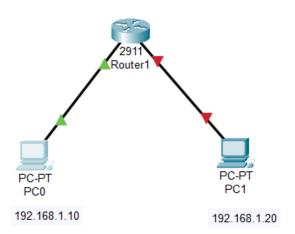
## Q12. Configure a standard Access Control List (ACL) on a router to permit traffic from a specific IP range. Test connectivity to verify the ACL is working as intended.



## **Router Configurations**

Standard ACL Configuration

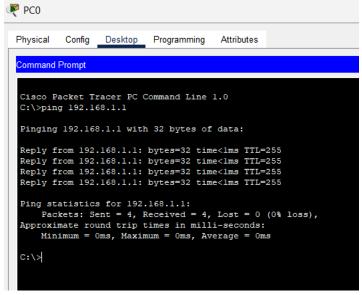
ACL to Allow PC0 (192.168.1.10) and Block Others

```
Router>enable
Router#configure terminal
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

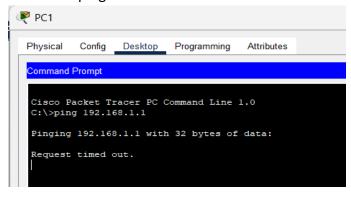
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
exit
Router(config)#access-list 10 permit 192.168.1.10 0.0.0.0
Router(config)#access-list 10 deny any
Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip access-group 10 in
Router(config-if)#exit
```

## PCO-> PC1 ping Success



PC1 ->PC0 ping failure



PC0 (192.168.1.10) can communicate with the router. PC1 (192.168.1.20) is blocked from communicating.