**Acknowledgment**

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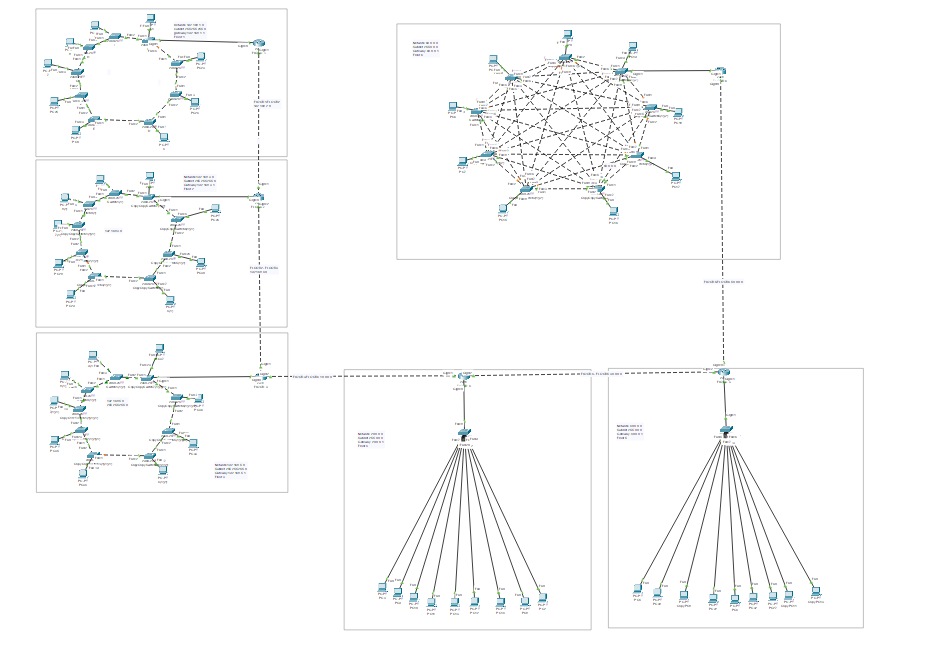
Rakibul Islam

Lovely Professional University

28/02/2025

**SIX FLOOR BUILDING NETWORKING**

**LAYOUT:**



Total number of networks: 11

Total number of LANs: 6

Total number of default gateways: 6

**Network addresses** of LANs are:

**192.168.1.0** (Private ClassC)

**192.168.3.0** (Private Class C)

**192.168.5.0** (Private Class C)

**20.0.0.0** (Public Class A)

**40.0.0.0**  (Public Class A)

**60.0.0.0**  (Public Class A)

**NETWORKS ADDRESS IN BETWEEN ROUTERS**

**FLOOR1-FLOOR2 HAS 192.168.2.0 NETWORK**(Private Class C)

**FLOOR2-FLOOR3 HAS 192.168.4.0 NETWORK**(Private Class C)

**FLOOR3-FLOOR4 HAS 10.0.0.0 NETWORK**(Private Class A)

**FLOOR4-FLOOR5 HAS 30.0.0.0 NETWORK(**Public Class A**)**

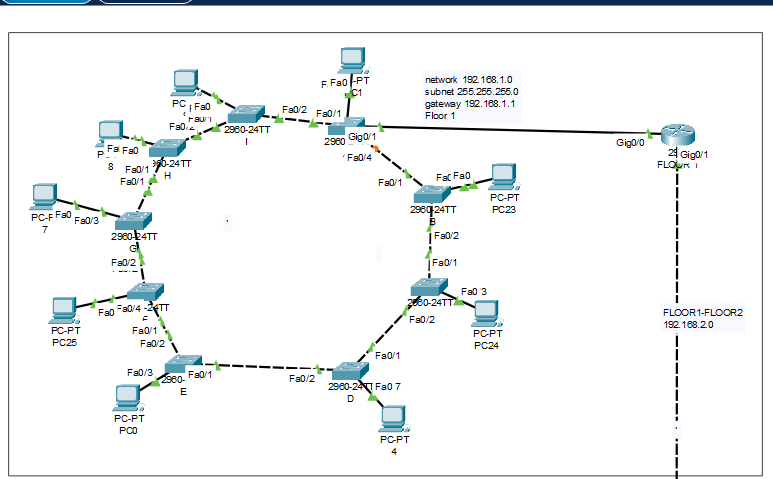
**FLOOR5 -FLOOR6 HAS 50.0.0.0 NETWORK(**Public Class A)

**FLOOR 1:**

**network 192.168.1.0**

**subnet 255.255.255.0**

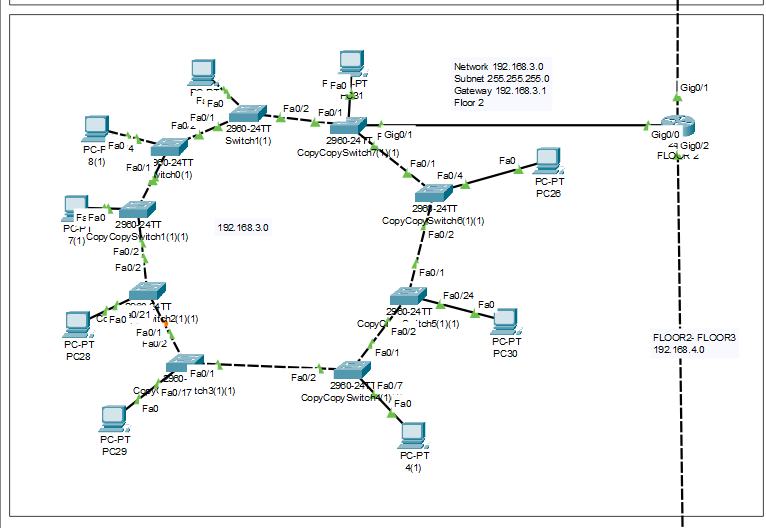
**gateway 192.168.1.1**



**FLOOR 2:**

**Network 192.168.3.0**

**Subnet 255.255.255.0**

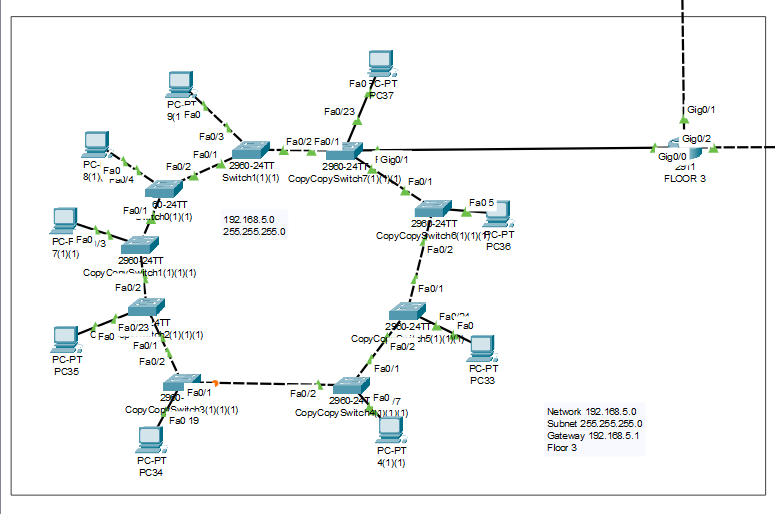
**Gateway 192.168.3.1**

**FLOOR 3:**

**Network 192.168.5.0**

**Subnet 255.255.255.0**

**Gateway 192.168.5.1**



**FLOOR 4:**

**Network 20.0.0.0**

**Subnet 255.0.0.0**

**Gateway 20.0.0.1**

**FLOOR 5:**

**Network 40.0.0.0**

**Subnet 255.0.0.0**

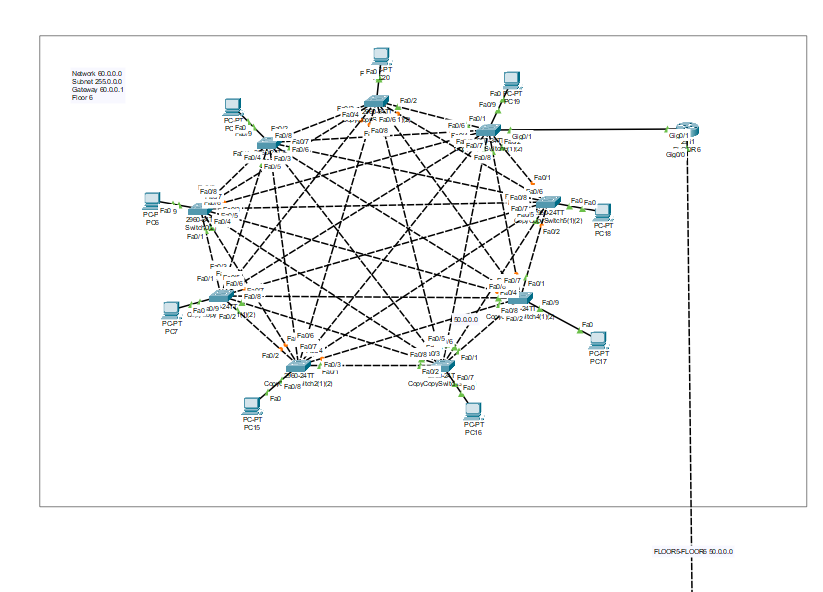
**Gateway 40.0.0.1**A diagram of a computer network

AI-generated content may be incorrect.

**FLOOR 6**:

**Network 60.0.0.0**

**Subnet 255.0.0.0**

**Gateway 60.0.0.1**

**NETWORKS IN BETWEEN ROUTERS**

**FLOOR1-FLOOR2 HAS 192.168.2.0 NETWORK**

**FLOOR2-FLOOR3 HAS 192.168.4.0 NETWORK**

**FLOOR3-FLOOR4 HAS 10.0.0.0 NETWORK**

**FLOOR4-FLOOR5 HAS 30.0.0.0 NETWORK**

**FLOOR5 -FLOOR6 HAS 50.0.0.0 NETWORK**

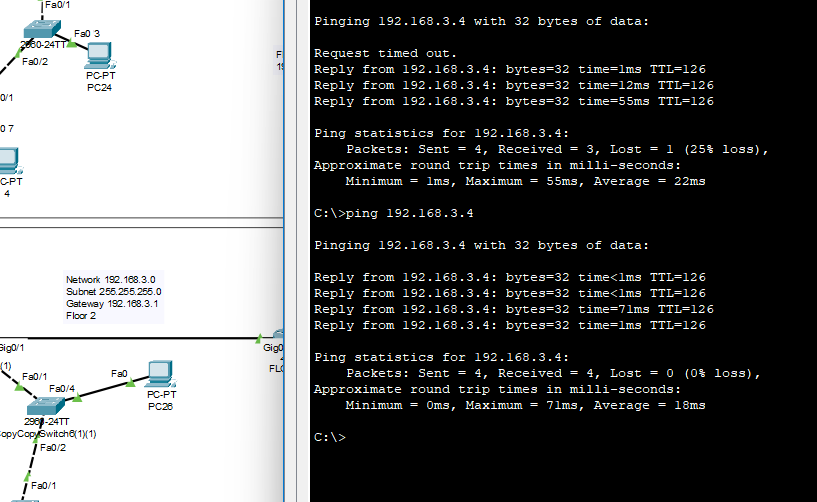


Figure 1 FLOORPC1 - FLOOR2PC

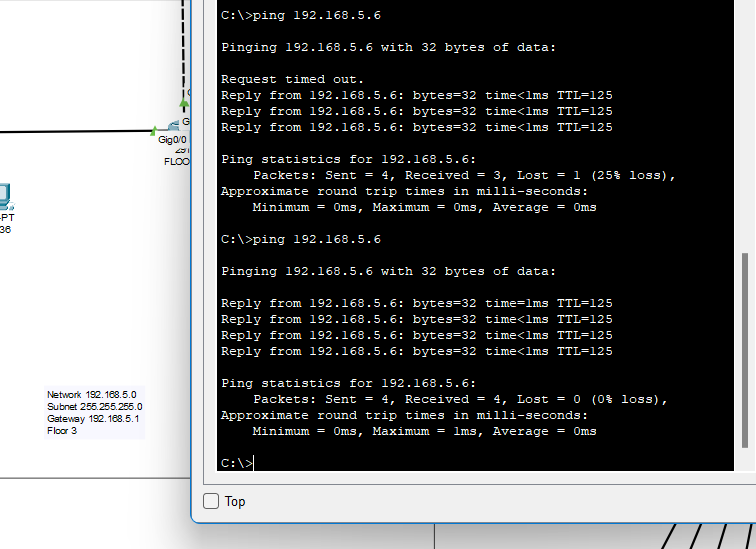


Figure 2 FLOOR1PC-FLOOR3PC

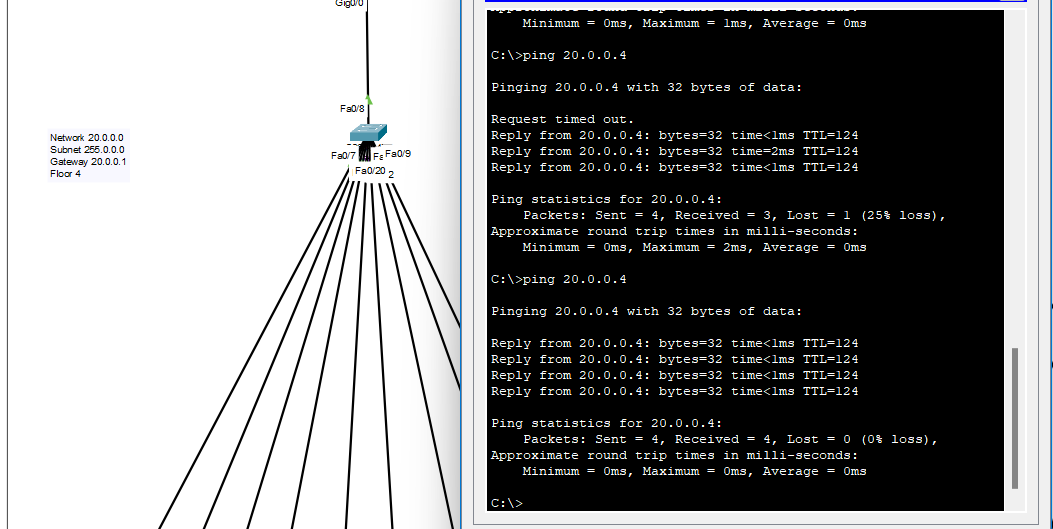


Figure 3:- FLOOR1PC-FLOOR4PC

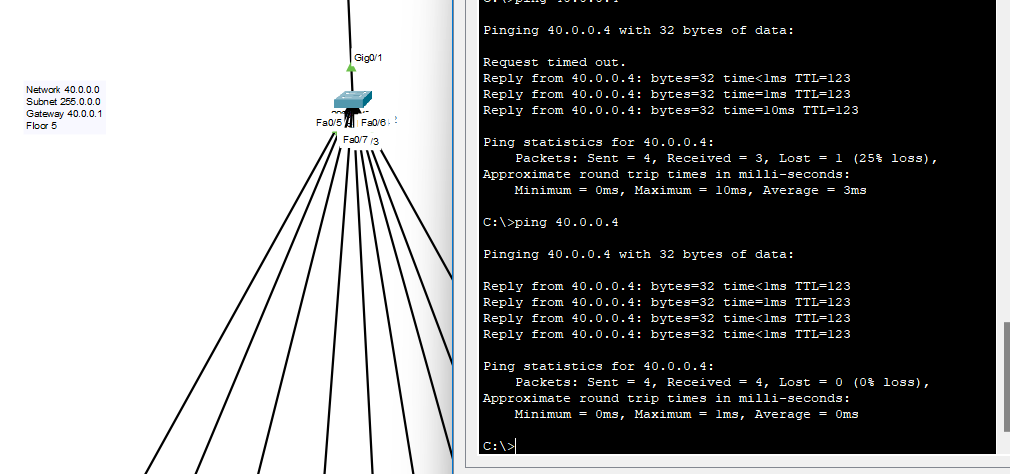


Figure 4: - FLOOR1PC -FLOOR5PC

A computer screen shot of a computer program

AI-generated content may be incorrect.

Figure 5: - FLOOR1PC - FLOOR6PC