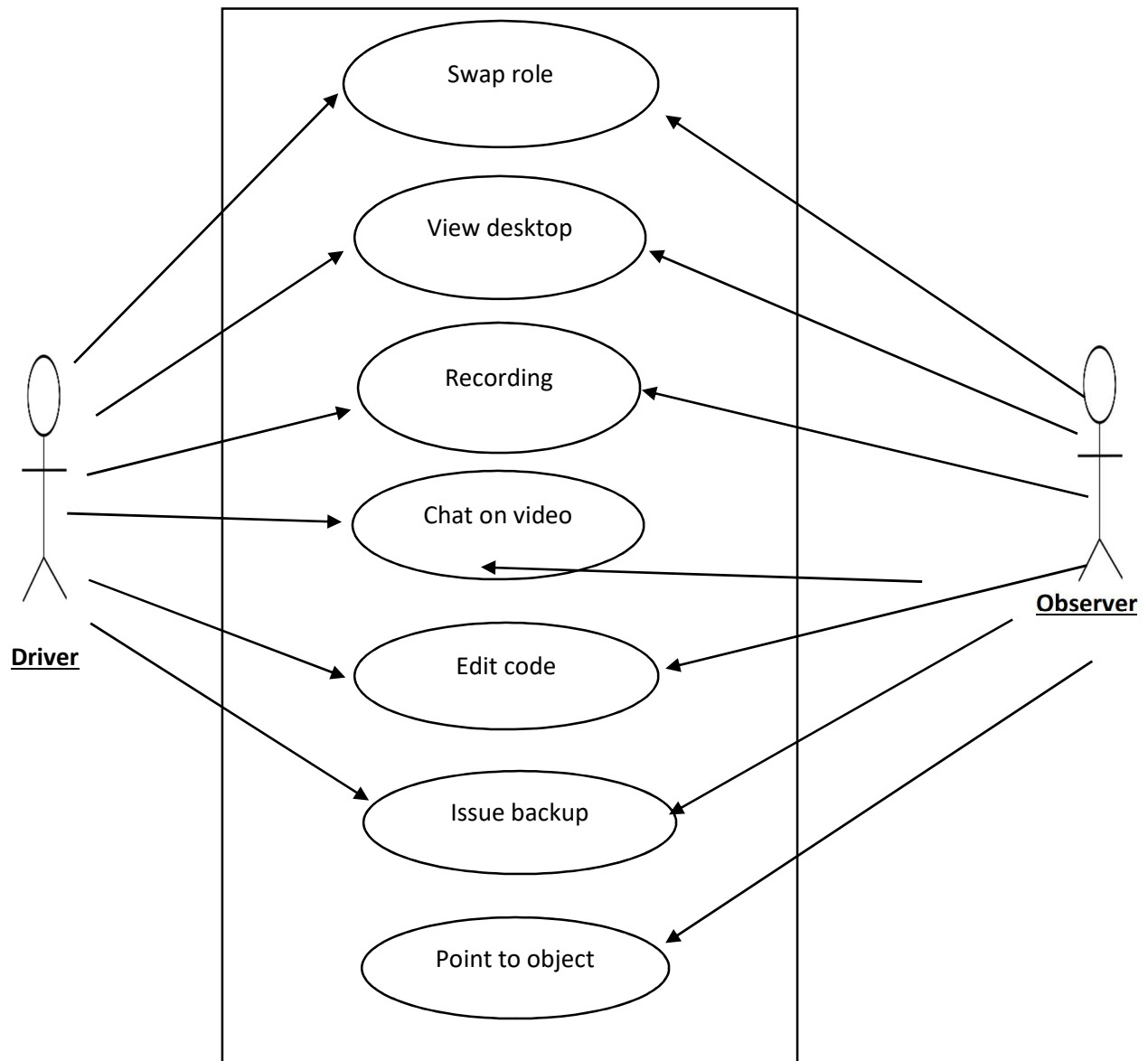


Name: Abdullah

Id:12406

Q) Draw a use case diagram to show all the functionality of the system.



Remote pair programming system usecase

Q) Describe in detail four non-functional requirements for the system.

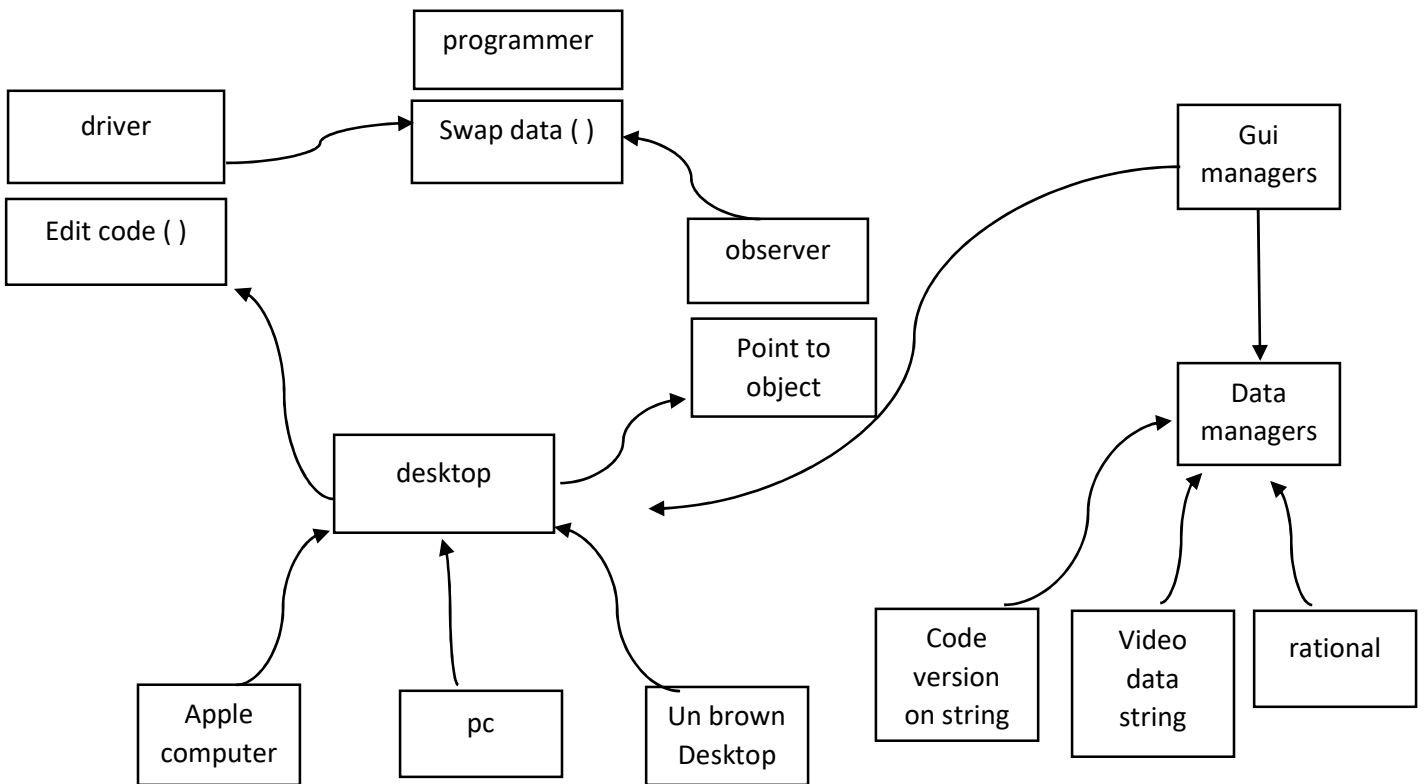
- Ans) 1: swap role
2: view desktop
3: point to object

Q) Give a prioritized list of design constraints for the system and justify your list and the ordering?

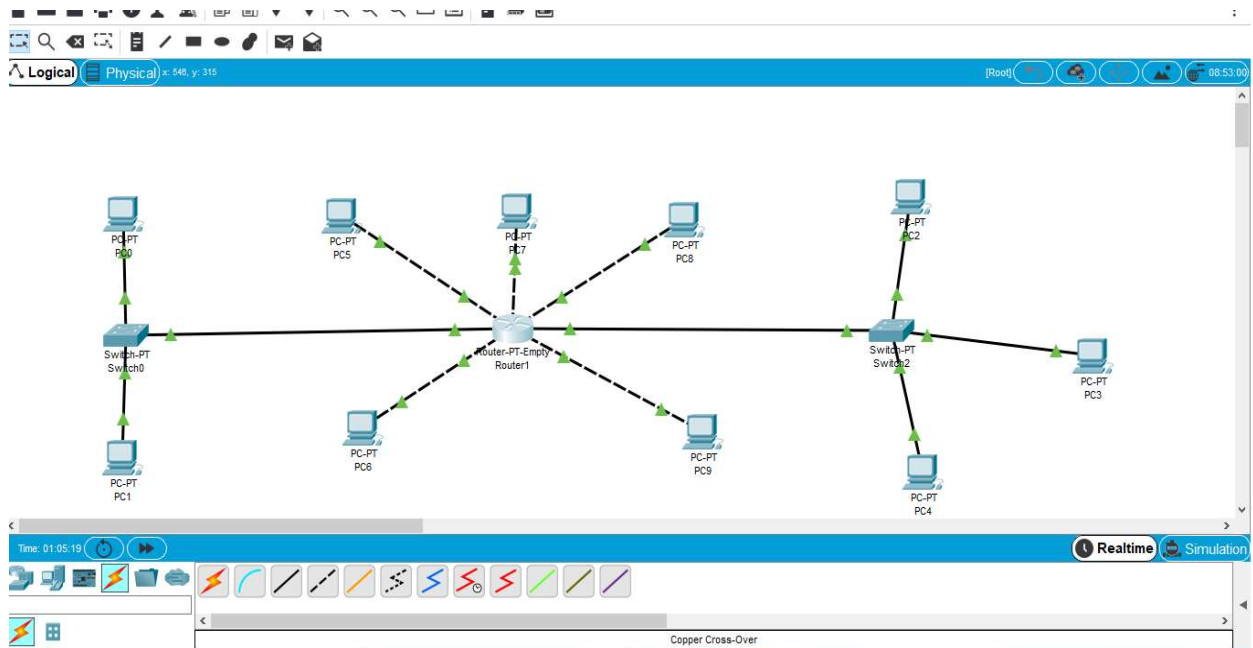
- video distraction
- system hardware problems
- fast response
- miscommunication on network fault

Q) Propose a set of classes that could be used in your system and present them in a class diagram.

Ans) **Diagram:**



Q) Construct a network topology which have one router.



2. Give hostname to the router with your name like "Muhammad ALI"

```

X.25 software, Version 3.0.0.
9 FastEthernet/IEEE 802.3 interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

--- System Configuration Dialog ---

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

Press RETURN to get started!

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#hostname abdullah
abdullah(config)#
```

Ctrl+F6 to exit CLI focus

3. Apply login password as your roll number e.g. "12345" on the router

```
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2005 by cisco Systems, Inc.
Compiled Wed 27-Apr-04 19:01 by miwang

PT 1001 (PTSC2005) processor (revision 0x200) with 60416K/5120K bytes of memory
.
Processor board ID PT0123 (0123)
PT2005 processor: part number 0, mask 01
Bridging software.
X.25 software, Version 3.0.0.
9 FastEthernet/IEEE 802.3 interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

      --- System Configuration Dialog ---

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

Press RETURN to get started!

Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#
Router(config)#hostname abdullah
abdullah(config)#line console 0
abdullah(config-line)#password 12406
abdullah(config-line)#login
abdullah(config-line)#exit
abdullah(config)#exit
abdullah#
%SYS-5-CONFIG_I: Configured from console by console
```

```
abdullah con0 is now available
```

```
Press RETURN to get started.
```

4. Enable secret password to it.

```
User Access Verification
Password:
% Password: timeout expired!

Press RETURN to get started!

User Access Verification
Password:
abdullah>en
abdullah#conf t
Enter configuration commands, one per line. End with CNTL/Z.
abdullah(config)#enable password pakistan
abdullah(config)#exit
abdullah#
%SYS-5-CONFIG_I: Configured from console by console
```

Ctrl+F6 to exit CLI focus

Copy Paste

5. Show banner of "NO ACCESS" before login on the router and show the results.

```
User Access Verification
Password:
abdullah>en
Password:
abdullah#en
abdullah#conf t
Enter configuration commands, one per line. End with CNTL/Z.
abdullah(config)#banner login x
Enter TEXT message. End with the character 'x'.

"No Access"x
```

```
%SYS-5-CONFIG_I: Configured from console by console
exit

abdullah con0 is now available

Press RETURN to get started.

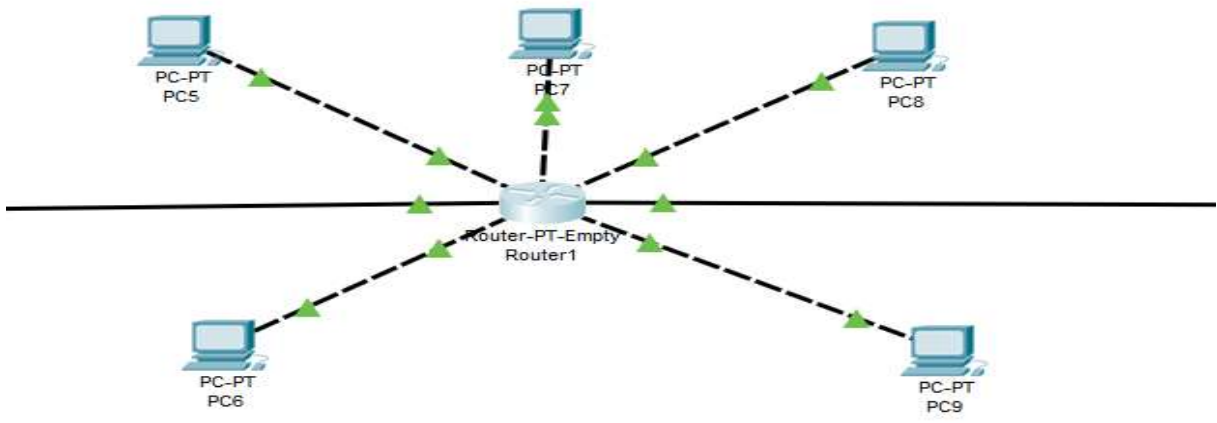
"No Access"
User Access Verification
Password:
```

Ctrl+F6 to exit CLI focus

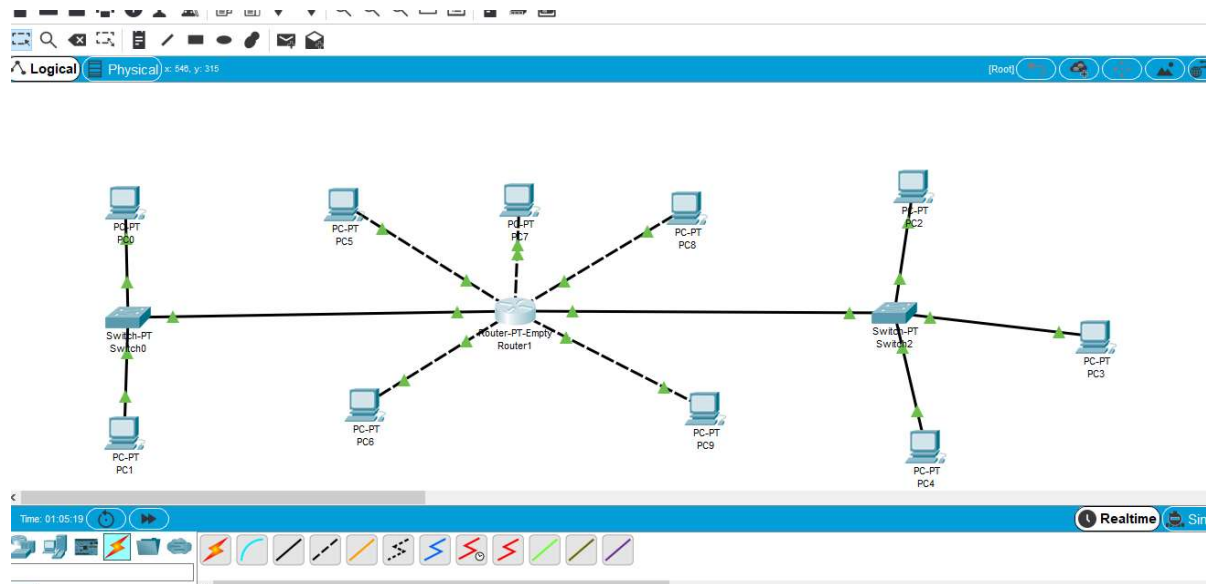
Copy Paste

Top

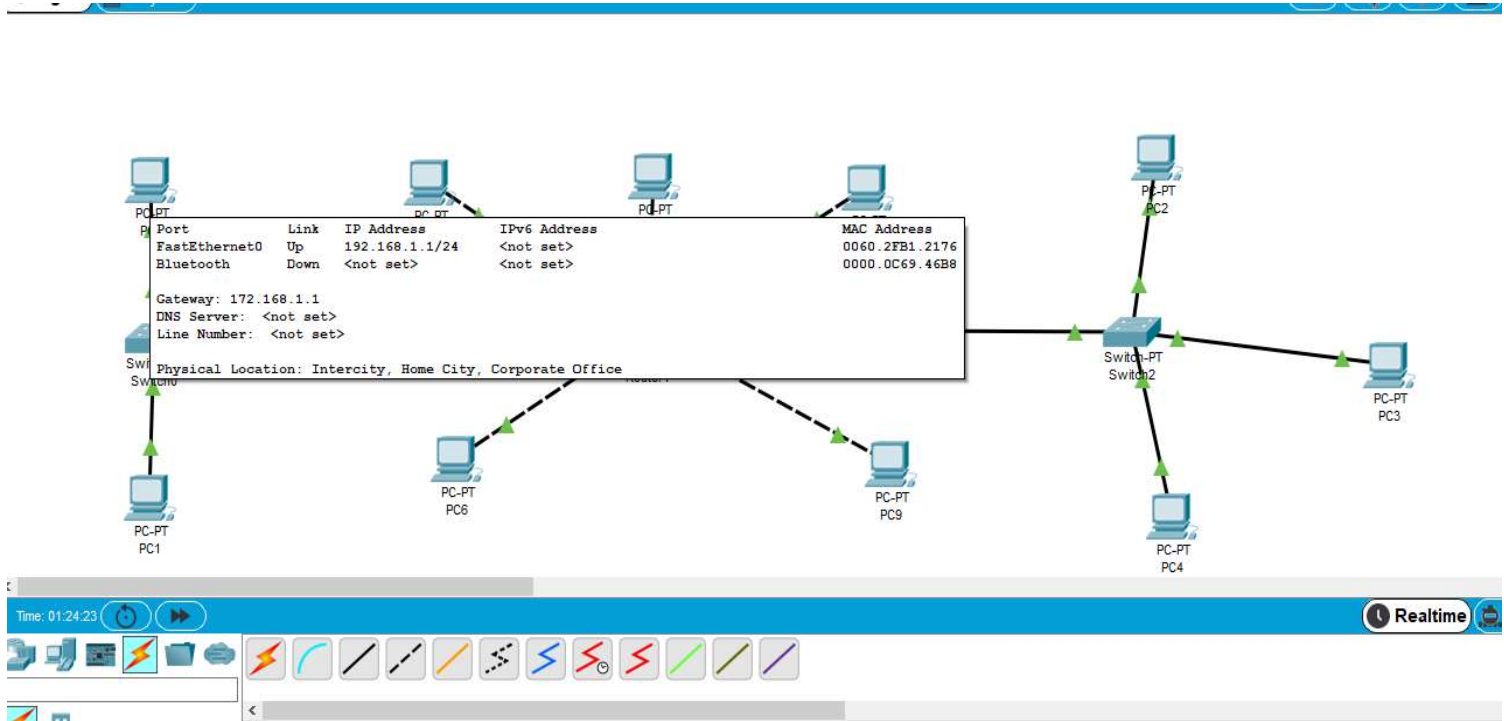
6. Router is connected with 5 computers

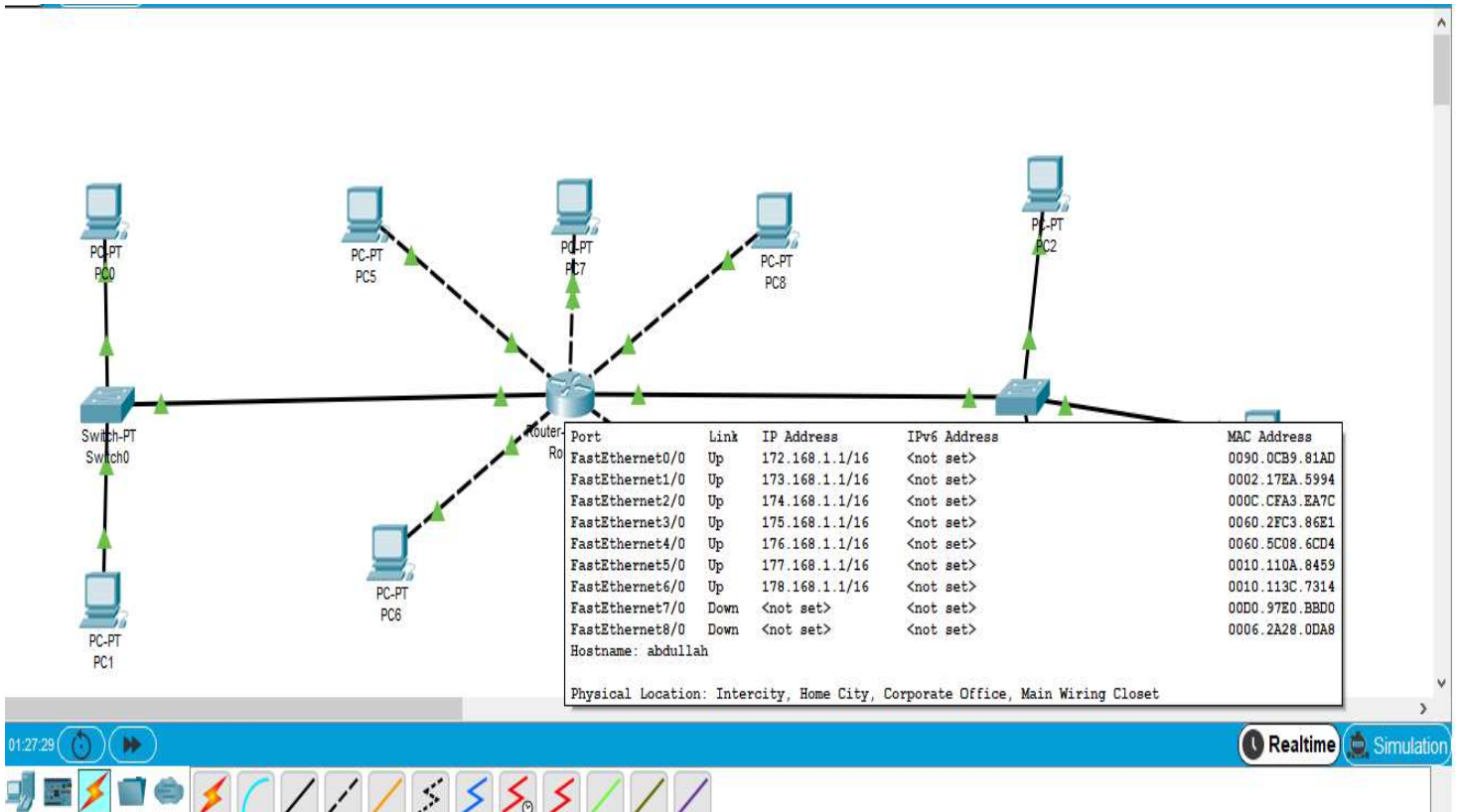


7. Also connect two switches with router which is connected with 2 of the computers from one side and 3 computers with other side

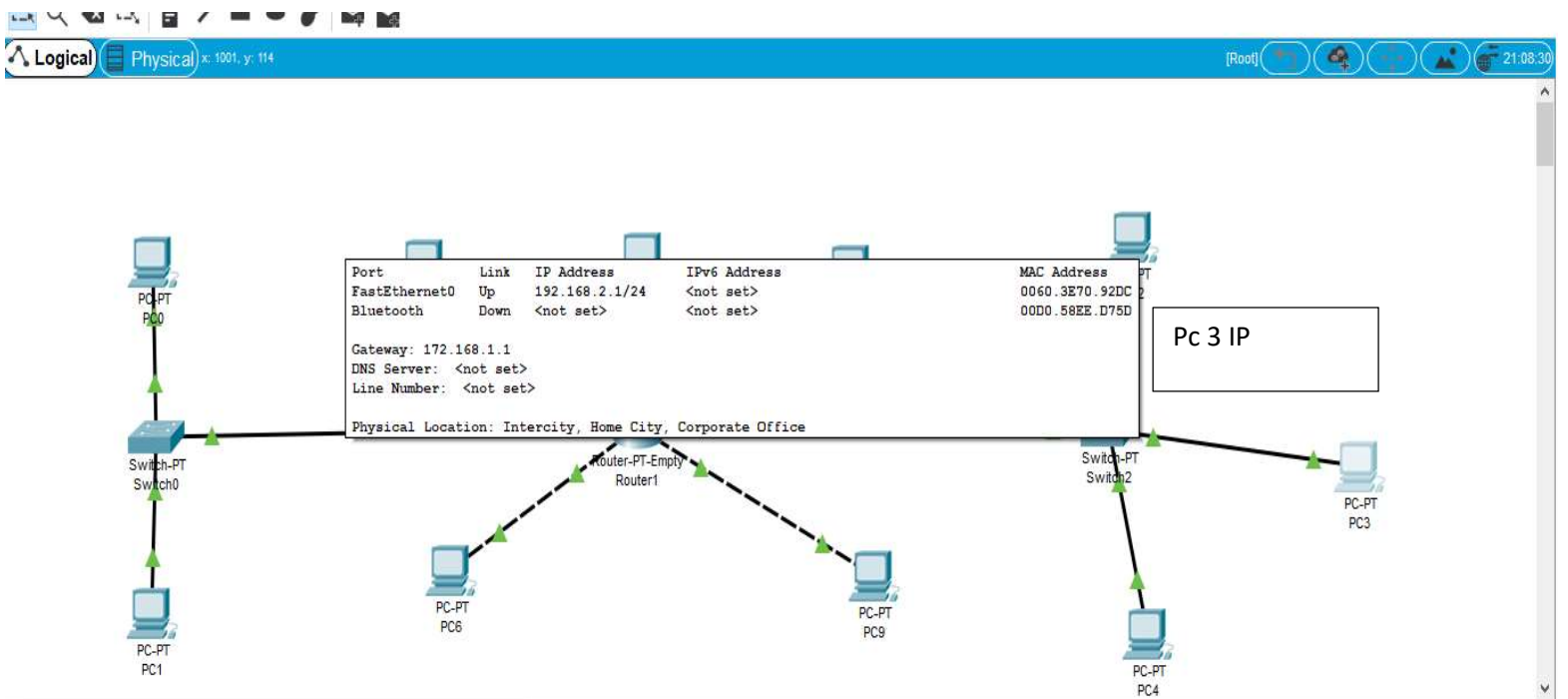


8. Assign the computers, switches and routers proper IP addresses, subnet mask and default gateways





S



9. Configure router using command line interface and ping one PC to other and show the results

10. In the end use "save your configurations" command and show the result.