City University

Submitted To:

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Course Code: CSE318
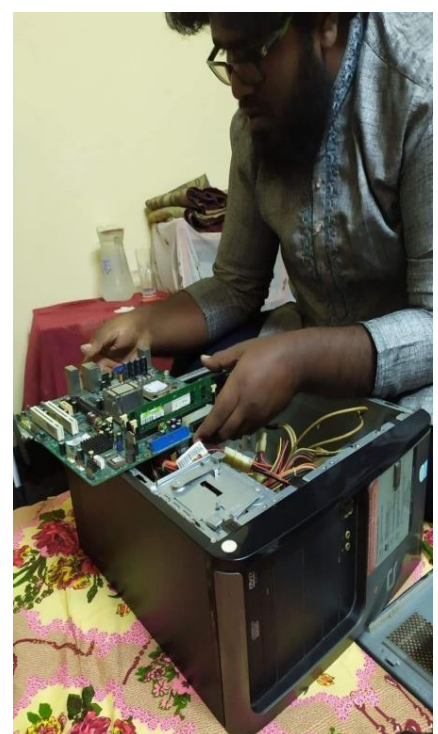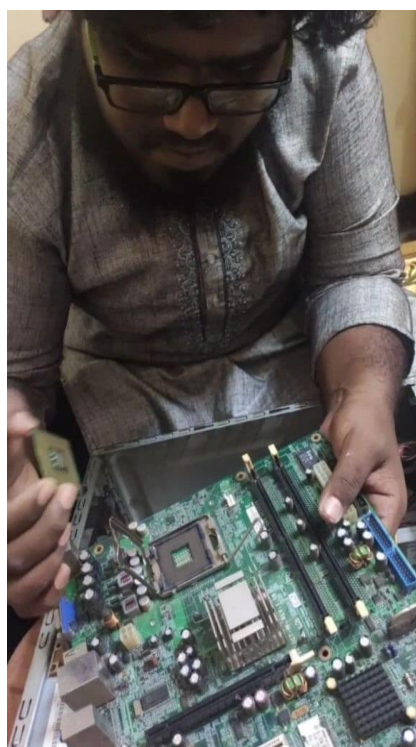Course Title: Computer Networks
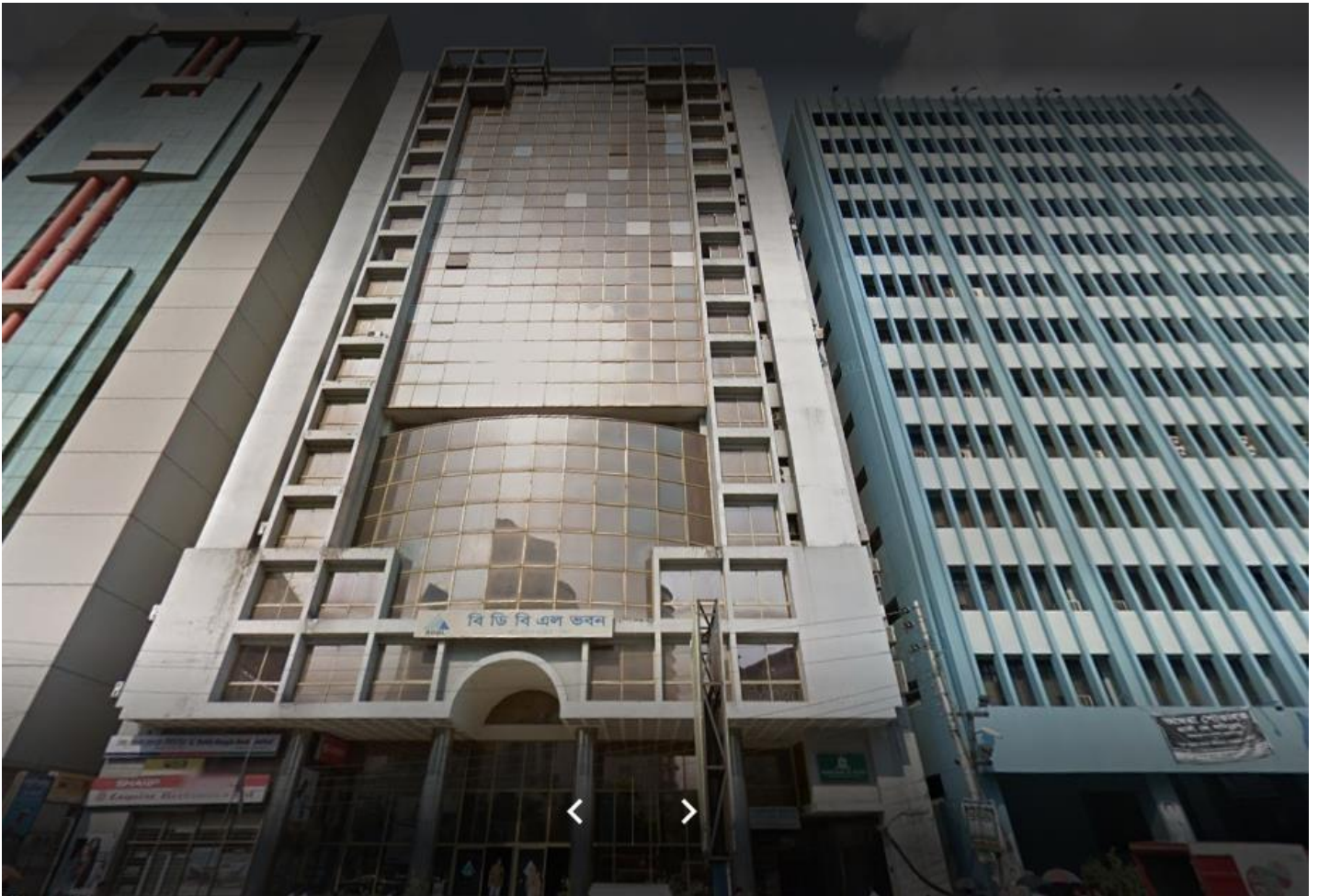
Assignment On

Bangladesh Association of Software and Information

Submitted By:

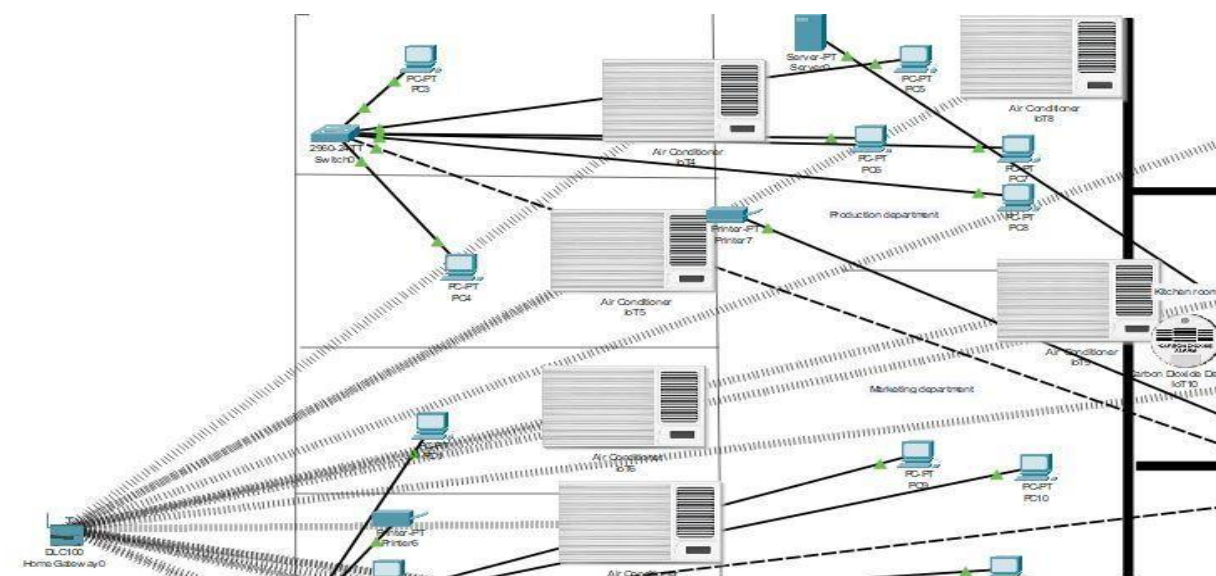Name: Md Selim Hossain
ID: 181472561
Batch: 47th

Screenshot from video:

Bangladesh Association of Software and Information Services (BASIS)
Photo Credit: Google

GitHub Link : https://github.com/selim121/Computer-Network
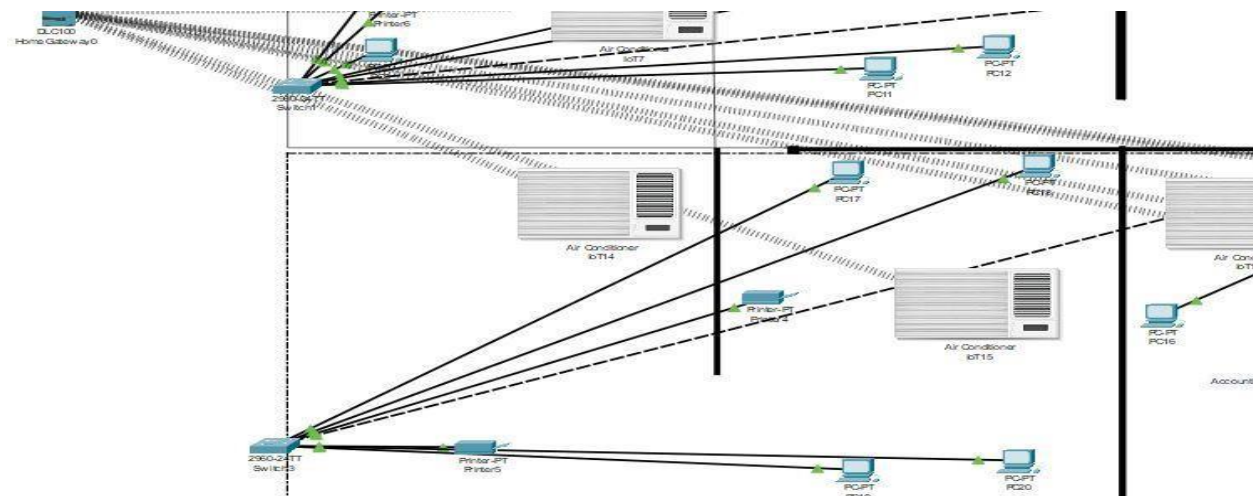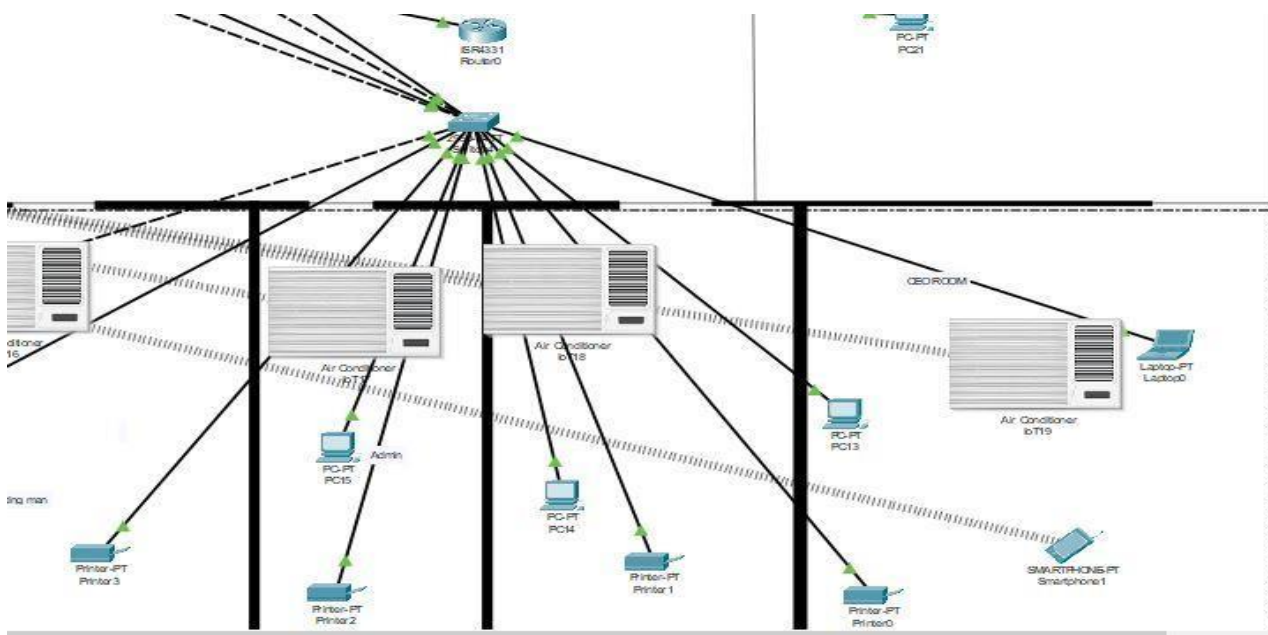
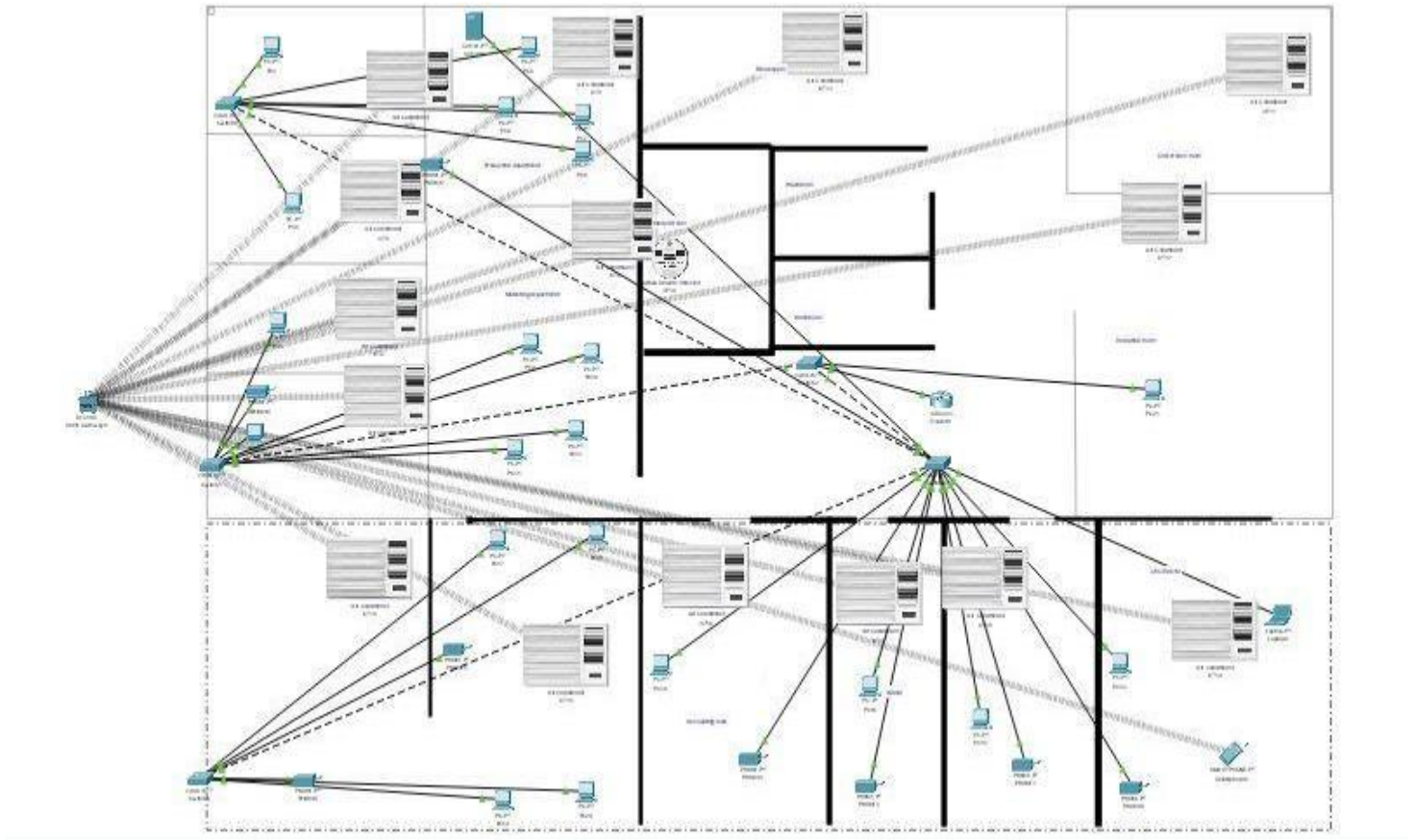**Logical Diagram :**

❖ Right side top corner
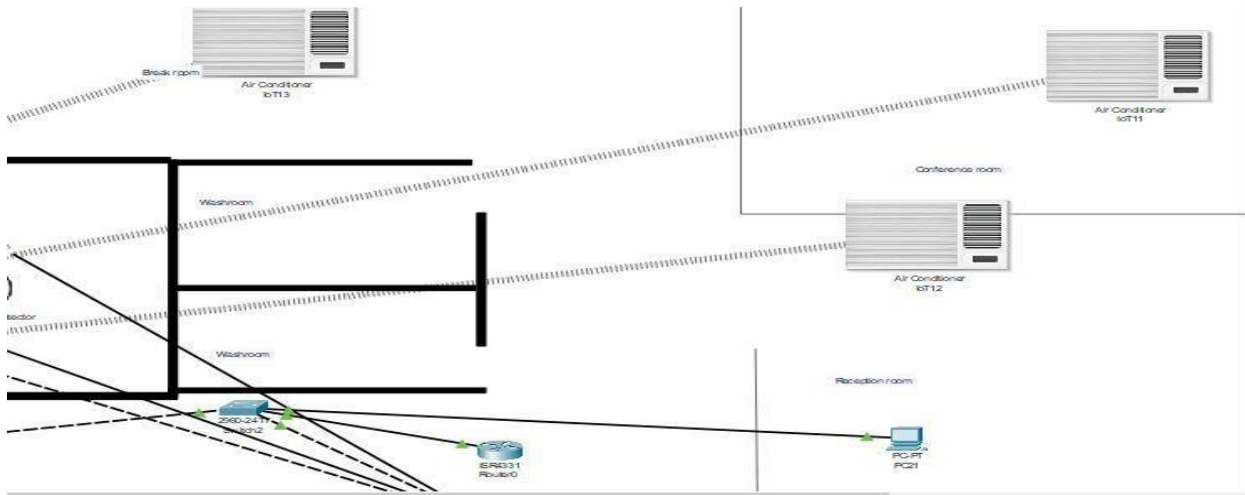
❖ Left side top corner

❖ Right side bottom corner

❖ Left side bottom corner

❖ Full View

Physical Diagram:
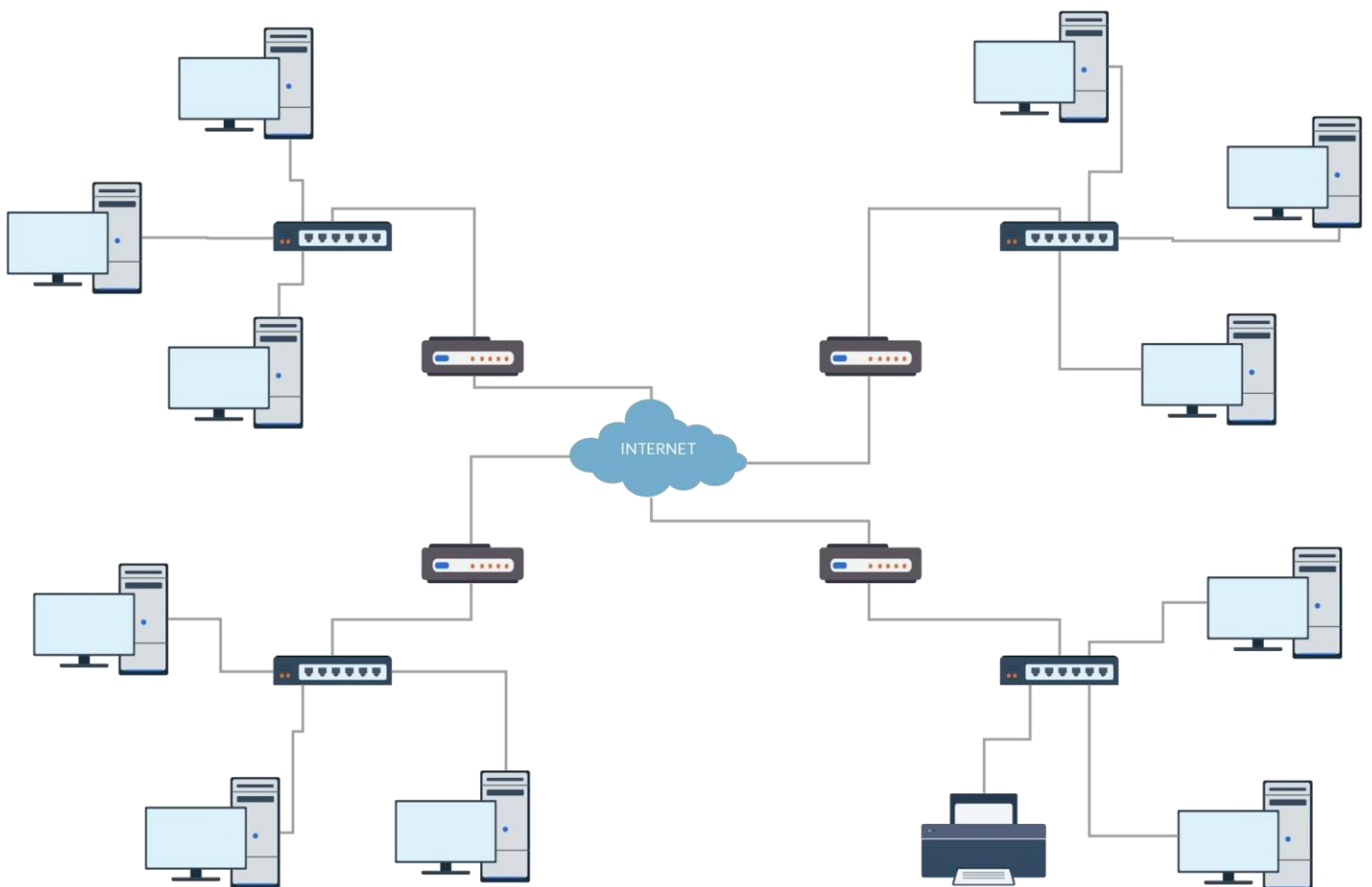
Price of Item

Item	Price(BDT)	Quantity	Total (BDT)
Router	12,000	1x	12,000
Switch	3,200	5x	16,000
Cat-6 UTP cabling	45	120ft	5,400
Cat-6a STP cabling	110	120ft	13,200
Desktop	45,000	21x	9,45,000
Air Conditioner	55,000	15x	8,25,000
Smart Phone	25,000	1x	25,000
Home Gateway	4,500	1x	4,500
Cable Lock	2,200	3x	6,600
Server Setup	2,100	4hr	8,400
Client Machine Setup	2,100	8hr	16,800
Cable Wiring	2,100	8hr	16,800
Network Device Setup	3,500	7hr	24,500
Training Employees on New Systems	3,000	7hr	21,000
Others	20-200	1-50	7,500

Total Up-front Prices   **= 19,47,700**

Advantages of Network:

These are main advantages of Computer Networks:

1. **Central Storage of Data –**
   Files can be stored on a central node (the file server) that can be shared and made available to each and every user in an organization.
2. **Anyone can connect to a computer network –**
   There is a negligible range of abilities required to connect to a modern computer network. The effortlessness of joining makes it workable for even youthful kids to start exploiting the data.
3. **Faster Problem solving –**
   Since an extensive procedure is disintegrated into a few littler procedures and each is taken care of by all the associated gadgets, an explicit issue can be settled in lesser time.
4. **Reliability –**
   Reliability implies backing up of information. Due to some reason equipment crash, and so on, the information gets undermined or inaccessible on one PC, another duplicate of similar information is accessible on another workstation for future use, which prompts smooth working and further handling without interruption.
5. **It is highly flexible –**
   This innovation is known to be truly adaptable, as it offers clients the chance to investigate everything about fundamental things, for example, programming without influencing their usefulness.
6. **Security through Authorization –**
   Security and protection of information is additionally settled through system. As just the system clients are approved to get to specific applications, no other individual can crack the protection or security of information.

7. **It boosts storage capacity –**
   Since you will share data, records and assets to other individuals, you need to guarantee all information and substance are legitimately put away in the framework. With this systems administration innovation, you can do the majority of this with no issue, while having all the space you requirement for capacity.

Disadvantages of Network:

These are main disadvantages of Computer Networks:

1. **It lacks robustness –**
   If a PC system's principle server separates, the whole framework would end up futile. Also, if it has a bridging device or a central linking server that fails, the entire network would also come to a standstill. To manage these issues, gigantic systems ought to have a ground-breaking PC to fill in as document server to influence setting to up and keeping up the system less demanding.
2. **It lacks independence –**
   PC organizing includes a procedure that is worked utilizing PCs, so individuals will depend a greater amount of PC work, rather than applying an exertion for their jobs that needs to be done. Beside this, they will be subject to the primary document server, which implies that, in the event that it separates, the framework would end up futile, making clients inactive.
3. **Virus and Malware –**
   On the off chance that even one PC on a system gets contaminated with an infection, there is a possibility for alternate frameworks to get tainted as well. Infections can spread on a system effectively, in view of the between availability of different gadgets.4. Lack of Independence
4. **Cost of network –**
   The expense of executing the system including cabling and equipment can be expensive.

Conclusion:

Computer network in an important part of the internet and for communicating in the world over computer. So, understanding computer network and it's mechanism is very important for all specially for the people who works around it. Also, the knowledge of network can be a great asset for understanding hacking and how to defend ourselves from it.