

Computer hardware and computer network

By

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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UNIVERSITY
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APPROVAL

This Internship Title on “ Computer hardware and computer network”, completed by Md. AL-Foysal. ID: 161-15-934 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents.

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DECLARATION

We hereby declare that, this Internship title on “Computer hardware and computer network”, has been done by me Md. AL –Foysal ID: 161-15-934 under the supervision of Tania Khatun, Lecturer, and Department of CSE at Daffodil International University. I also declare that neither this Internship nor any part of this Internship has been submitted elsewhere for award of any degree or diploma.

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We would like to express our heartiest gratitude to Dr. Syed Akhter Hossain, Professor, and ~~Head~~ Department of CSE, for his kind help to finish my internship and also to other faculty member, and the staff of CSE department of Daffodil International University.

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Finally, I must acknowledge with due respect the constant support and patients of my parents.

ABSTRACT

The main purpose of an internship is to provide real-world experience and make it easier to find a job that enables me to put everything I've learned into action. Here I got a lesson about the real project and official management. It helps me to find out the good skills. I got acquainted with all the employees in the company where I did intern. As a result, my network has become and stronger. This is a great opportunity to have my job. This internship gives me an idea of the corporate world I got a rough idea of how to run an organization,

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

Internship is a system where I learned about real workplace. Here's a lesson about the real project and about the official management. Here I have learned about how to work in real life, which has improved me. My university has given me so much knowledge, but here I learned how to apply this knowledge to my real life. Here I learned lot of thing about computer hardware and network, which I had never known before. Here I got new ideas about computer hardware and network, which is very important for my career.

In this report I discussed about computer hardware and network, which I have achieved through internship.

1.2 MOTIVATION

In this internship have a chance to let me know about practical work experience in web development. And I choose computer hardware and network because of now a day's computer hardware and network is many popular working areas in computer science and engineering.

I prefer golden harvest because of that is a well-reputed company here is give me a lot of knowledge about computer hardware and network and in this company is user-friendly and that is a most popular company in Bangladesh and in this company have a branch of another country in the world.

|

1.3 Internship Objectives

- Knowledge about a job sector.
- Experience about the company policy.
- Knowledge about as a employee system.

1.4 Internship Goals

- Deep knowledge about computer hardware.
- Knowing lot of think about computer network.
- Knowing about various type of project in web development.

1.5 About the Company

Golden Harvest is a technology based international company. They have been providing efficient service for a long time. They provide 100% service to customers, so they are easily able to achieve customer satisfaction.

1.6 Services Area:

- Human Resources
- Data entry service

1.7 Report Layout

In this report, I will try to present my works through different chapters, which I did an internship. At first, I tried to introduce the introduction, motivation, internship object, internship goals, about the company and report layout. Then I've presented about the organization, product and market situation, challenge, organization structure. Then I discussed the project that I have implemented in this internship.[3]

CHAPTER 2

Organization

2.1 Introduction

I have studied for 4 years at my university. Here I have learned a lot, so that I have found various aspects of modern technology, which I can work in the future. From here I have found my favorite subject, and that is computer network. But my desire to work computer hardware. I found my subject from my university and found as a place to work on this topic at Golden Harvest.

2.2 Product and market situation

Computer hardware is currently the main industry. In the modern world people are getting more modern, hopefully, how to do something good in a short time. And computer hardware and network is a good way. Because use for computer network people are being benefited in a variety of ways.

SWOT Analysis

Table: 2.1 SWOT Analysis.[5]

Strengths	Weaknesses	Opportunities	Threats
Suited Locations	Big of price or cost	Market Development	High level moving to all time
Overall brand Equity	Big staff costs	Expand product offering	High level moving to online conveyance
Individually branded products	Practical Ability	Exclusive product contribution	Security
Capability	Permit	Co-branding locations	Shoplifting [4]

Organizational Structure

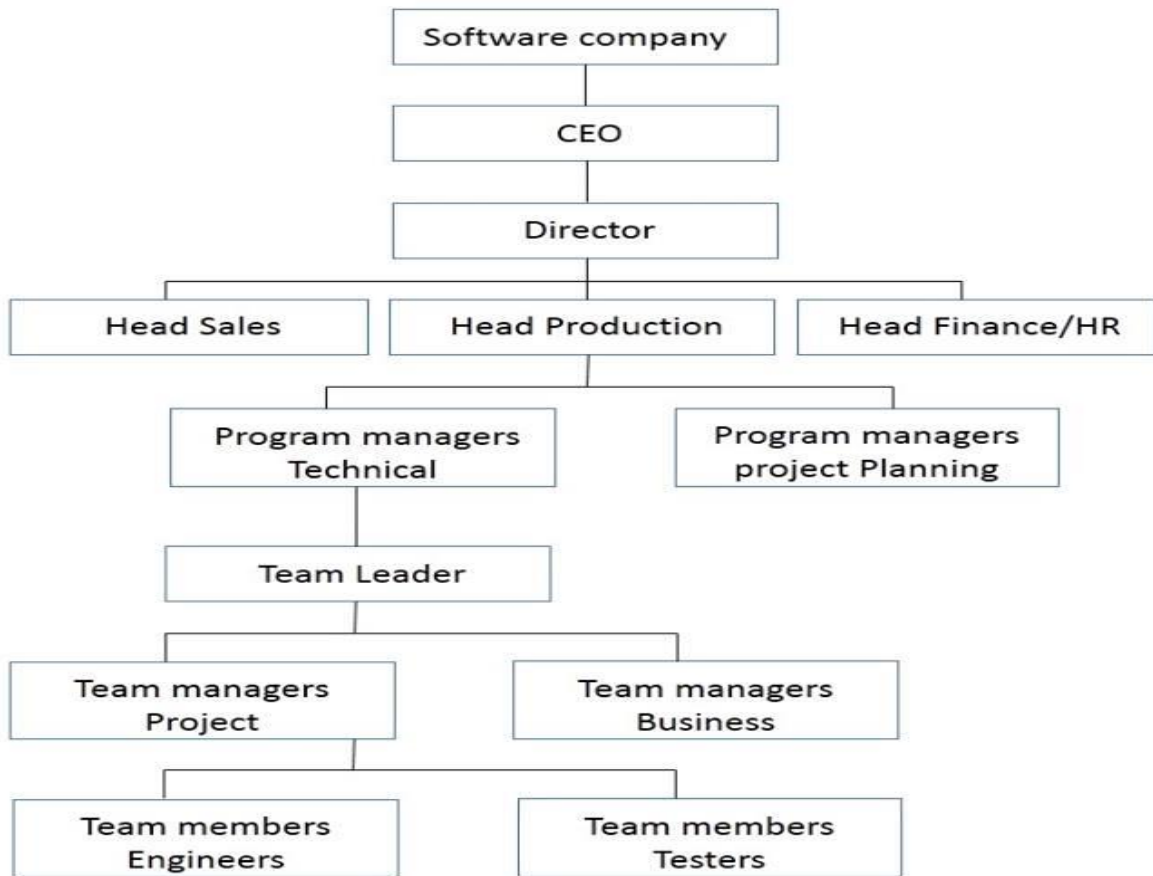


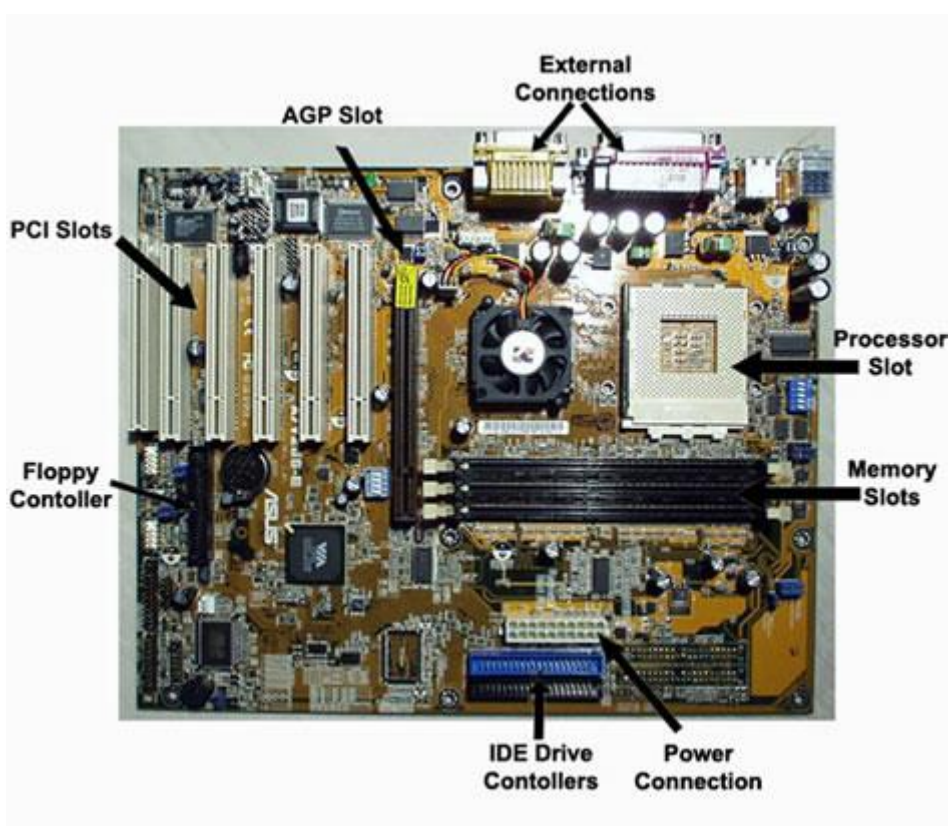
Fig: 2.2 Organization Structure

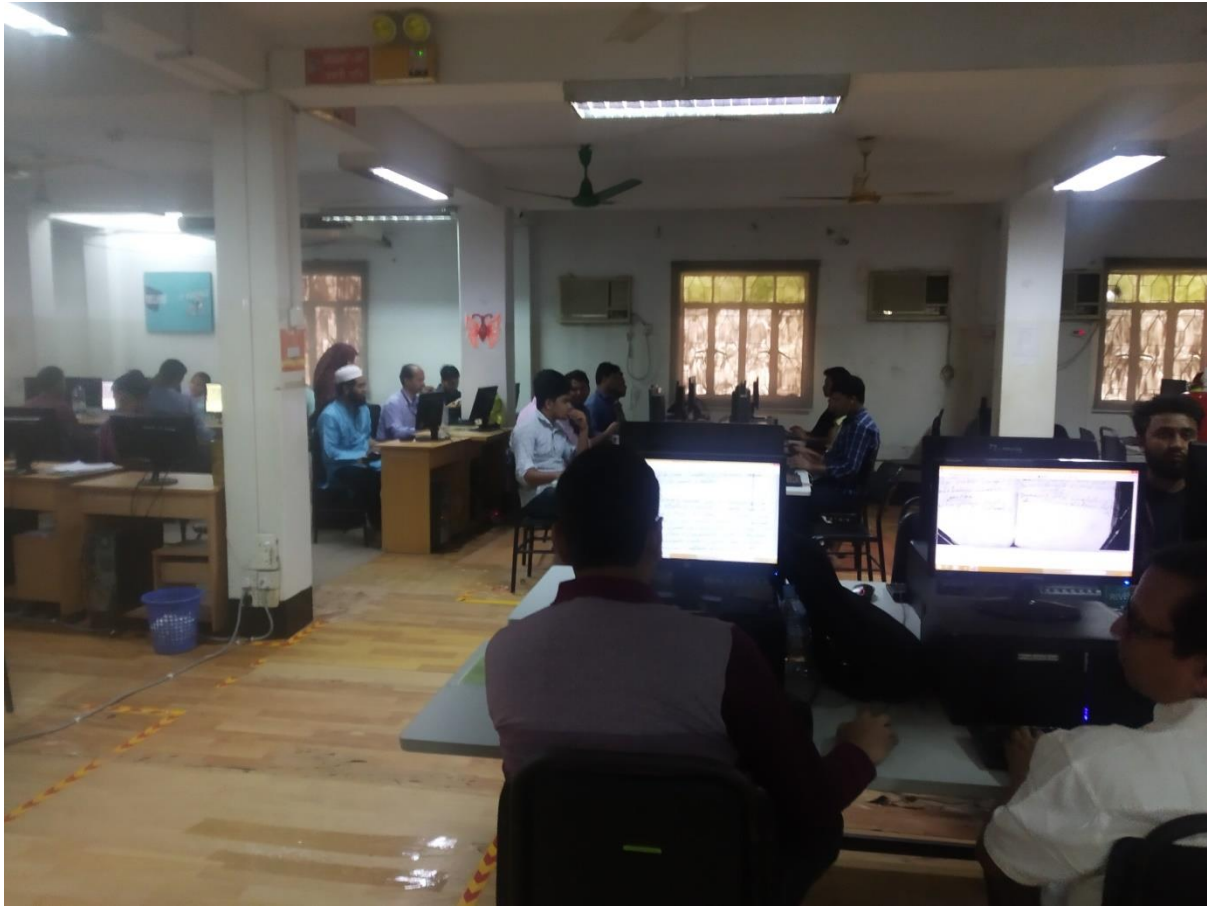
CHAPTER 3

Tasks Projects and Activities

3.1 Daily Project Task and Activities:

I joined People Golden harvest for my internship company. I had regularly complete various type of work. On the first day I look at all the computer connection.





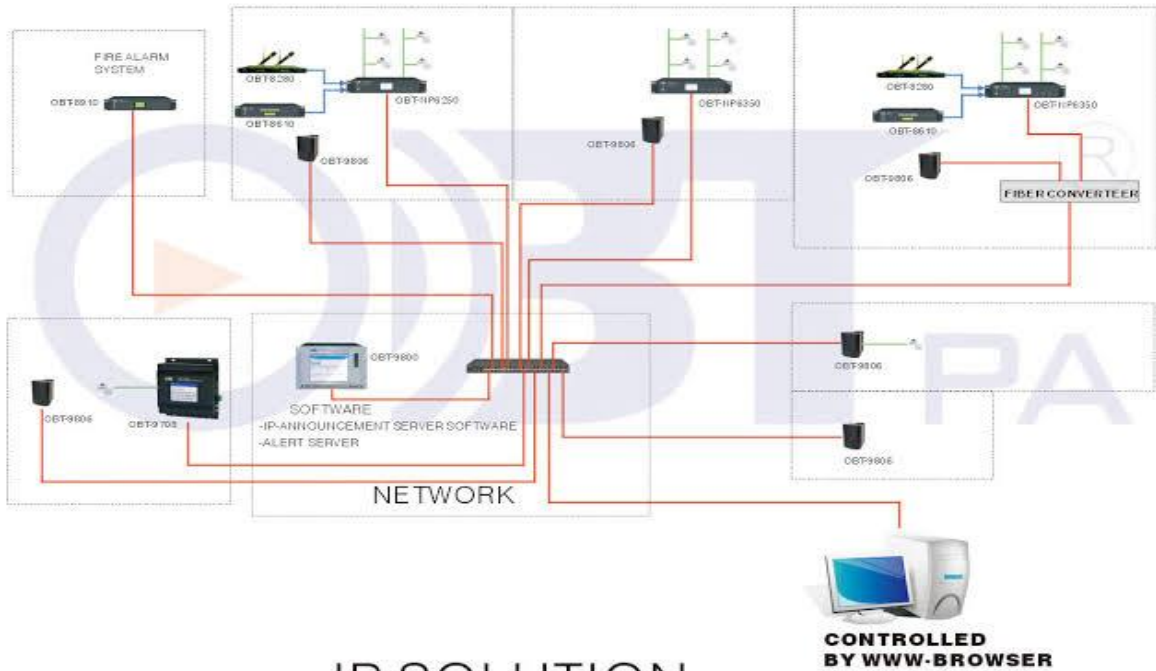
Design and oversee the production of computer hardware equipment. Test and re-test parts to ensure they work properly.



Networking cables are networking hardware used to connect one network device to other network devices or to connect two or more computers



and An IP address is a unique global address for a network interface. I learned ip address very well. I connect ip address all pc.



IP SOLUTION

Name _____

Date _____

Page _____

do not
please ~~don't~~ trust sales people
below.

	B	B	B	B
A	N	H	H	H
B	N	N	<u>H</u>	<u>H</u>
C	<u>N</u>	<u>N</u>	<u>N</u>	H

IP class :-

- A → 0 → 127, 10.0.0.0 → 10.255.255.255
- B → 128 → 191, 172.16.0.0 → 172.31.255.255
- C → 192 → 223, 192.168.0.0 → 192.168.255.255
- D → 224 → 239 (multicast)
- E → 240 → 255 (Reserved)

Theme

Date
Place

$191.168.10.0 / 28$
 $Net = (28 - 24) = 4$
 $= 2^4 = 16$
 $Host = (32 - 28) = 4$
 $= 2^4 - 2$
 $= 14$

1	0000	00000
2	0001	00001
3	0010	00010
4	0011	00011
5	0100	00100
6	0101	00101
7	0110	00110
8	0111	00111
9	1000	01000
10	1001	01001
11	1010	01010
12	1011	01011
13	1100	01100
14	1101	01101
15	1110	01110
16	1111	01111

1st Net

$192.168.0.0$	$192.168.10.0000$	$192.168.0.11100$
1st IP		0001
$192.168.0.1$	$192.168.10.0000$	
Last IP		1110
$192.168.0.14$	$192.168.10.0000$	
1st Net		1111
$192.168.0.15$	$192.168.10.0000$	

Date _____
Place _____

<u>Theme</u>		
<u>2nd net</u>		
192.168.10.16	192.168.10.0001	0000
<u>1st IP</u>		
192.168.10.17	192.168.10.0001	0001
<u>Last IP</u>		
192.168.10.30	192.168.10.0001	1110
<u>2st</u>		
192.168.10.31	192.168.10.0001	1111
<u>3rd net</u>		
192.168.10.32	192.168.10.0010	0000
<u>1st IP</u>		
192.168.10.33	192.168.10.0010	0001
<u>Last IP</u>		
192.168.10.46	192.168.10.0010	1110
<u>2st</u>		
192.168.10.47	192.168.10.0010	1111
<u>4th net</u>		
192.168.10.48	192.168.10.0011	0000
<u>1st IP</u>		
192.168.10.49	192.168.10.0011	0001
<u>Last IP</u>		
192.168.10.62	192.168.10.0011	1110
<u>2st</u>		
192.168.10.63	192.168.10.0011	1111
<u>5th net</u>		
192.168.10.64	192.168.10.0100	0000
<u>1st IP</u>		
192.168.10.65	192.168.10.0100	0001
<u>Last IP</u>		
192.168.10.78	192.168.10.0100	1110
<u>2st</u>		
192.168.10.79	192.168.10.0100	1111

Theme _____

Date _____

Place _____

6th Net

192.168.10.80	192.168.10.0101	0000
1st IP: 192.168.10.81	192.168.10.0101	0001
2nd IP: 192.168.10.94	192.168.10.0101	1110
3rd IP: 192.168.10.95	192.168.10.0101	1111

7th Net

192.168.10.96	192.168.10.0110	0000
1st IP: 192.168.10.97	192.168.10.0110	0001
2nd IP: 192.168.10.110	192.168.10.0110	1110
3rd IP: 192.168.10.111	192.168.10.0110	1111

8th Net

192.168.10.112	192.168.10.0111	0000
1st IP: 192.168.10.113	192.168.10.0111	0001
2nd IP: 192.168.10.126	192.168.10.0111	1110
3rd IP: 192.168.10.127	192.168.10.0111	1111

9th Net

192.168.10.128	192.168.10.1000	0000
1st IP: 192.168.10.129	192.168.10.1000	0001
2nd IP: 192.168.10.142	192.168.10.1000	1110
3rd IP: 192.168.10.143	192.168.10.1000	1111

10th Net

192.168.10.144	192.168.10.1001	0000
1st IP: 192.168.10.145	192.168.10.1001	0001
2nd IP: 192.168.10.158	192.168.10.1001	1110
3rd IP: 192.168.10.159	192.168.10.1001	1111



Fig: cable connection

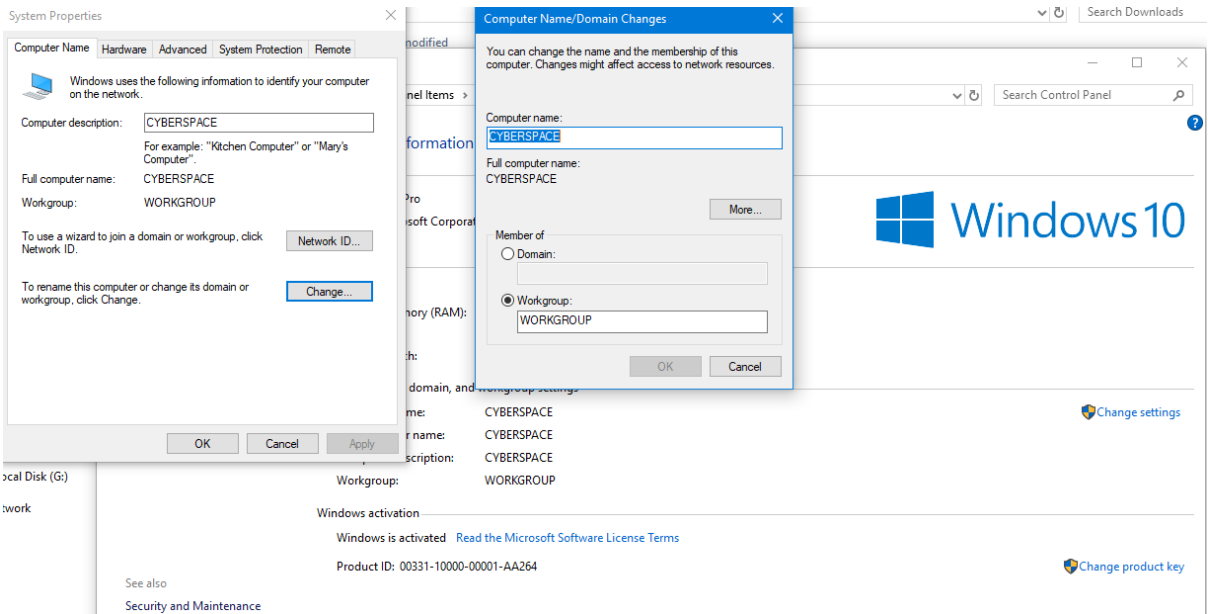
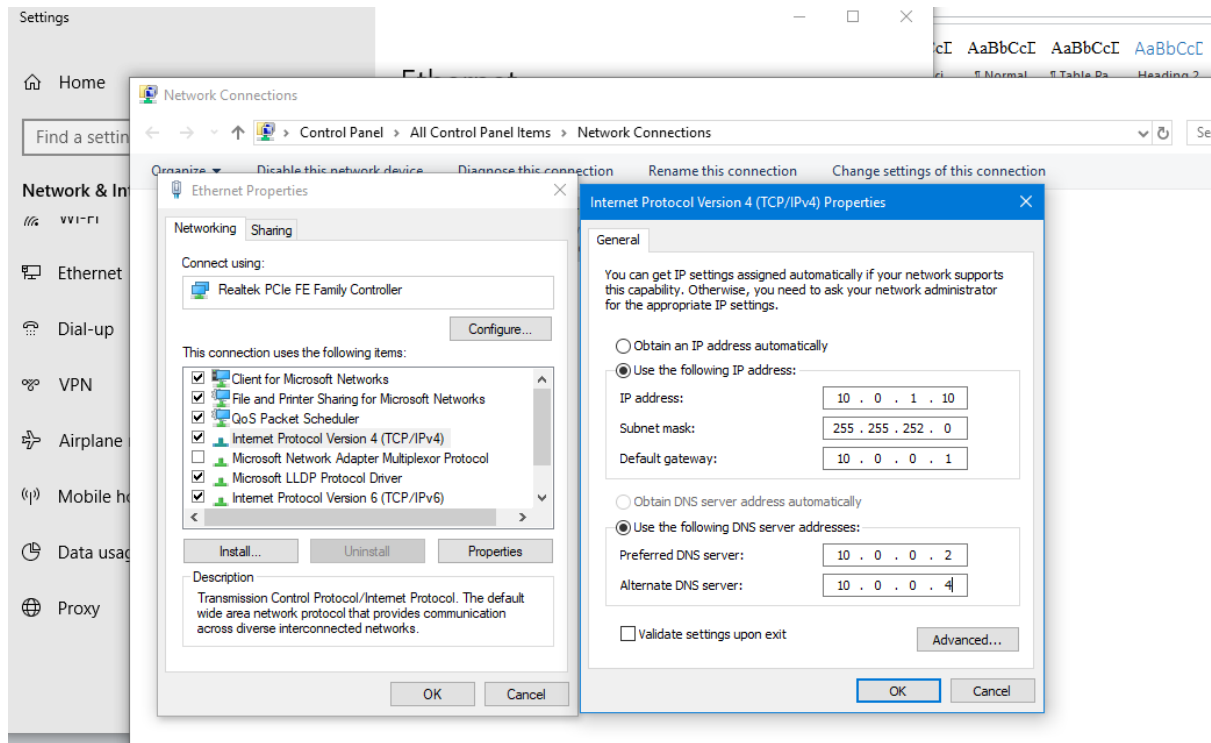


Fig: computer IP



3.2 Event and Activity:

Every day I worked on in intern. Every week I updated the work to the project manager and tried to take feedback from him. Lastly, I was able to complete my intern with the help of everyone.

3.3 Challenge:

Computer hardware and network is not a simple matter, its coverage is widespread. That cannot be done in a short time and it is not possible to know everything about it. It is difficult to always do something new, which is to work computer hardware consistently.

CHAPTER-4

Competencies and Smart Plan

Competencies Earned: To do something good, i have do hard work.. Because there are many hardware developer in Bangladesh. I have to prepare myself like myself. For this, I have to

learn more advanced work, which will make me more efficient.

So, the competition is such a way that I can know about someone else's skills and I have an idea about my own skills

4.1 My Smart Plan:

- Most will learn about computer network.
- You need to know about the quality of the computer network and learn about the codes used in them.

CHAPTER 5

Conclusion and Future Carrier

5.1 Conclusion

I achieved many experiences from this internship, which will help me play a role in my future work. I was able to do various computer hardware and network and got the opportunity to work in various projects, which helped me to be self-reliant

5.2 Scope for future career

Getting a good job becomes a big challenge for me, if I have no real experience. But a

successful internship will help me build a better career. Which will prove to be helpful in my dreams.

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[Bg \[](#)

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[8] Competencies-Earned-at:<https://www.slideshare.net/pamelawendell/competencies-required-for-becoming-a-computer-networking-professional>

[9] Scope for Further Career at <https://www.iiht.com/blog/why-the-scope-of-networking-engineers-in-the-future-is-looking-bright/>

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Appendix A: Internship Reflection:

Basically, two options were in front of me, one is an internship and one is projected on anything. I like Internship here because here I can get the experience of doing real work which was very useful for me. Because it will help me learn the work and office rules simultaneously. I think that will play a helpful role in my career in the future

Appendix B: Company Detail:

Golden Harvest InfoTech Ltd (GHIT) is a multi-disciplinary outsourcing service provider established in 2000. GHIT specializes in digitizing data from handwritten documents and manuscripts with our team of professionals. ... It is a Bangladesh based service provider of digitization and hosting services.

MISSION:

Consistently deliver international standard innovative products & services for improved lifestyle

Address:

Company Name	Golden Harvest Info tech Limited
BASIS Membership No.	G273
Year of establishment	February 1997
Address	Ideal Trade Center (5th Floor), 102 Shahid Taj Uddin Ahmed Sharani, Dhaka – 1208
Contact No.	Phone: 9146556-7, 9116027 Fax: 9117339
E-mail	contact@goldenharvest-bd.com
Company website	www.goldenharvestbd.com