Green University of Bangladesh

Dept. of CSE

Course Title: Computer Networking Lab
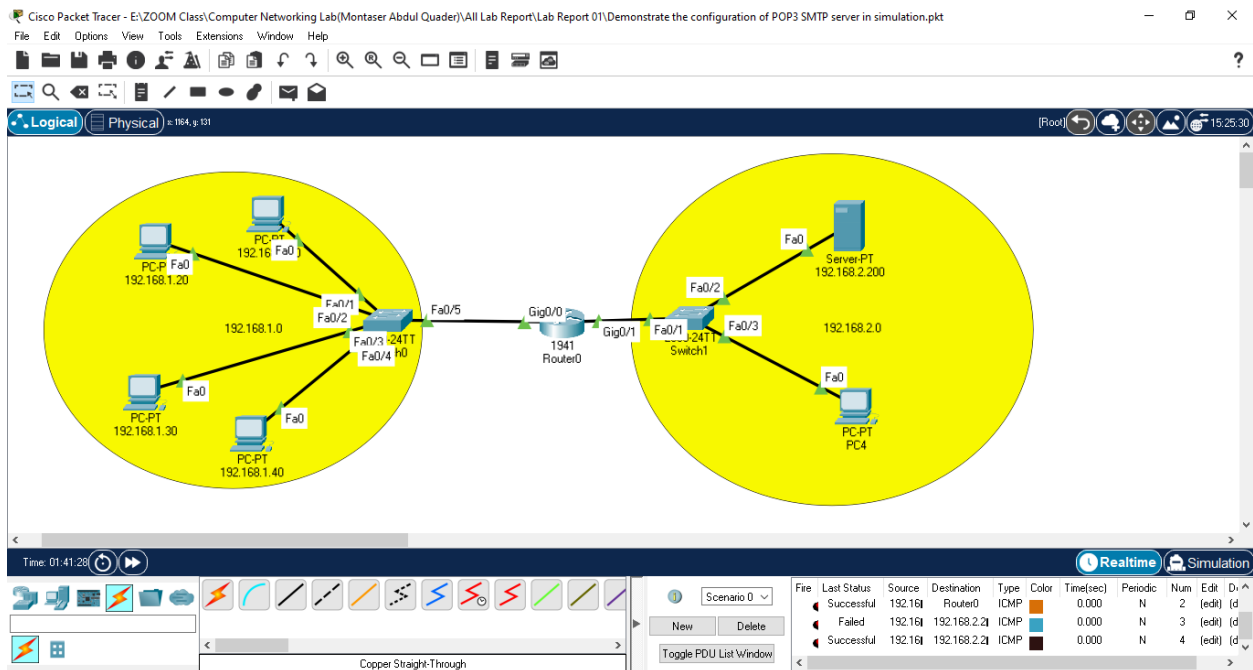## Lab Report-01

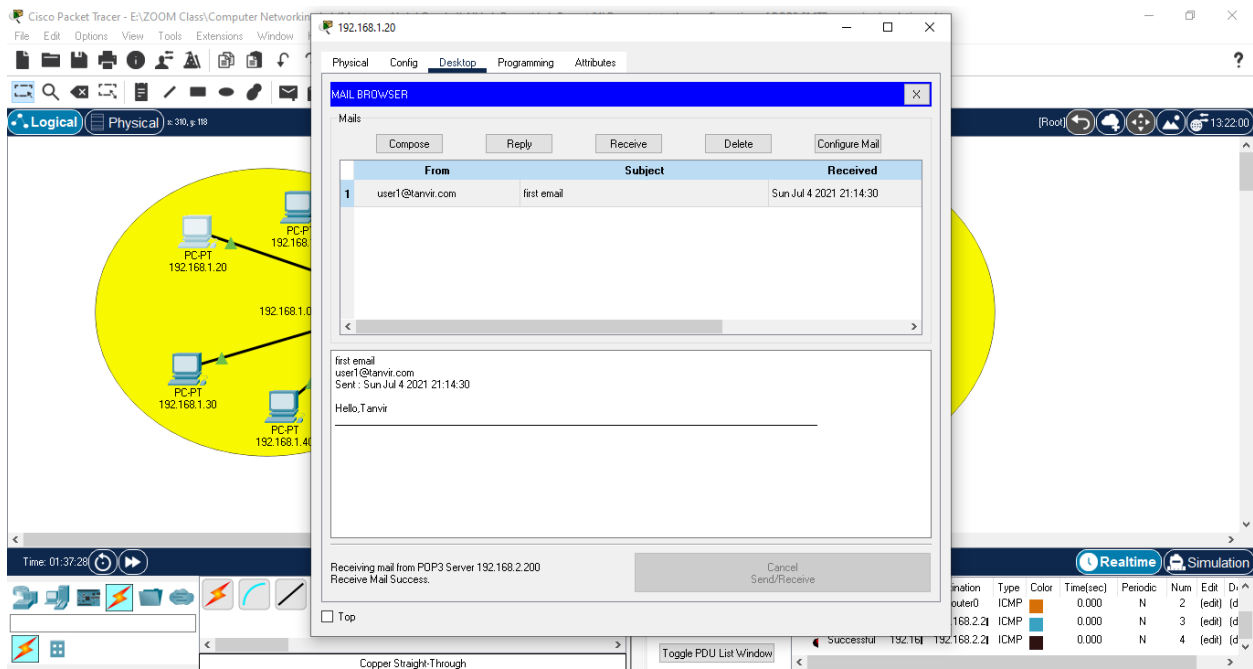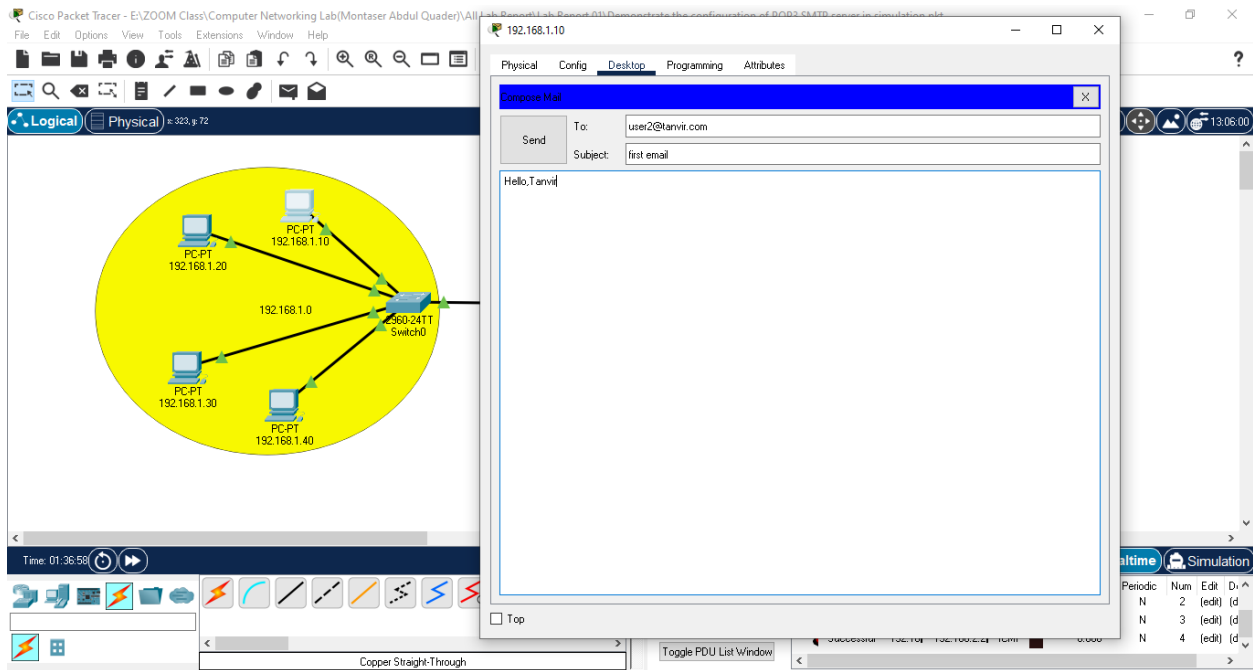| Submitted By:	Submitted To:
Md. Tanvir Ahmed	**Mr. Montaser Abdul Quader**
ID No : 191015102	Designation: Lecturer
Batch No: ED	Dept. of CSE
Semester : 8th	Green University Of Bangladesh
Lab Date:30/6/2021	Submission Date: 04/07/2021

2) Experiment Name: Demonstrate the configuration of POP3 SMTP server in simulation and real environment.

OBJECTIVES: POP3 is the most commonly used email protocol. It is used to retrieve emails from an email server.The process begins when the monitor delivers an email to the SNMP server on specified recipient address. That means we send mail through SMTP and we receive mail through POP3
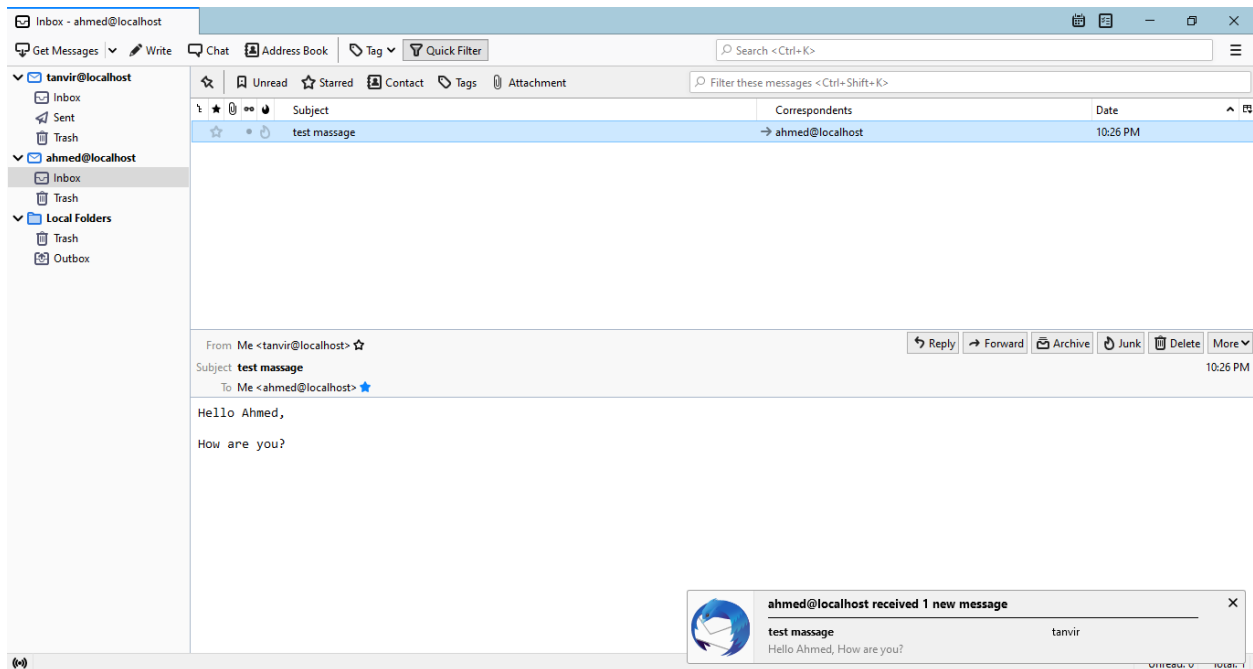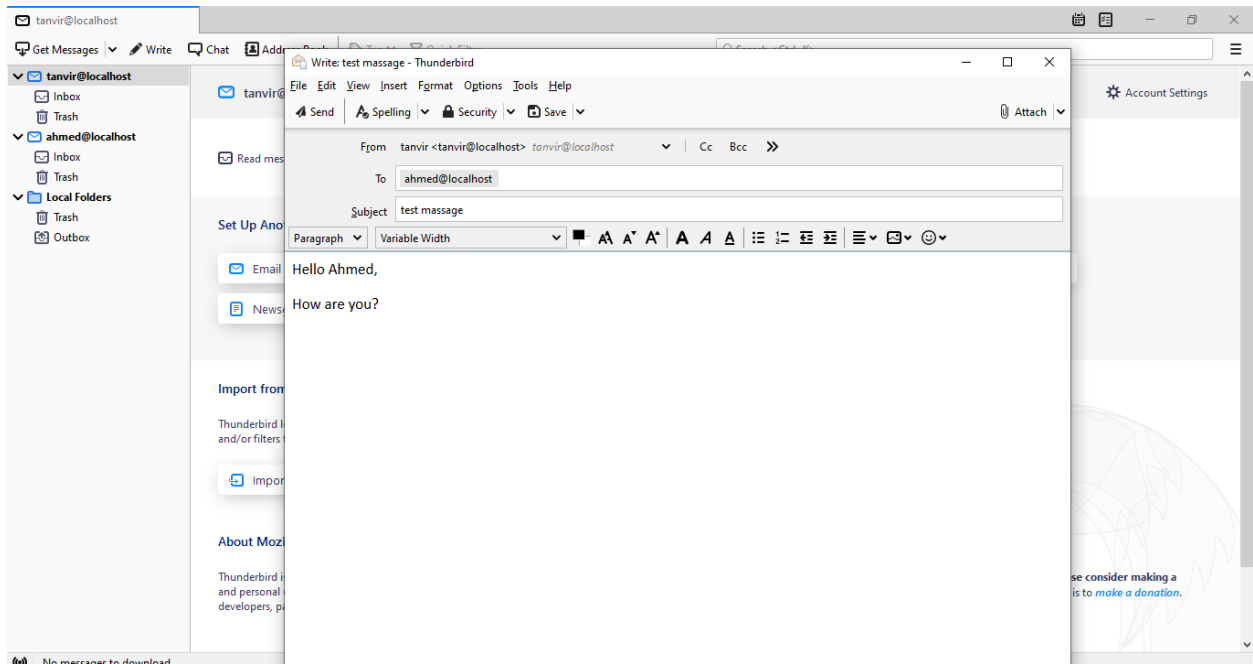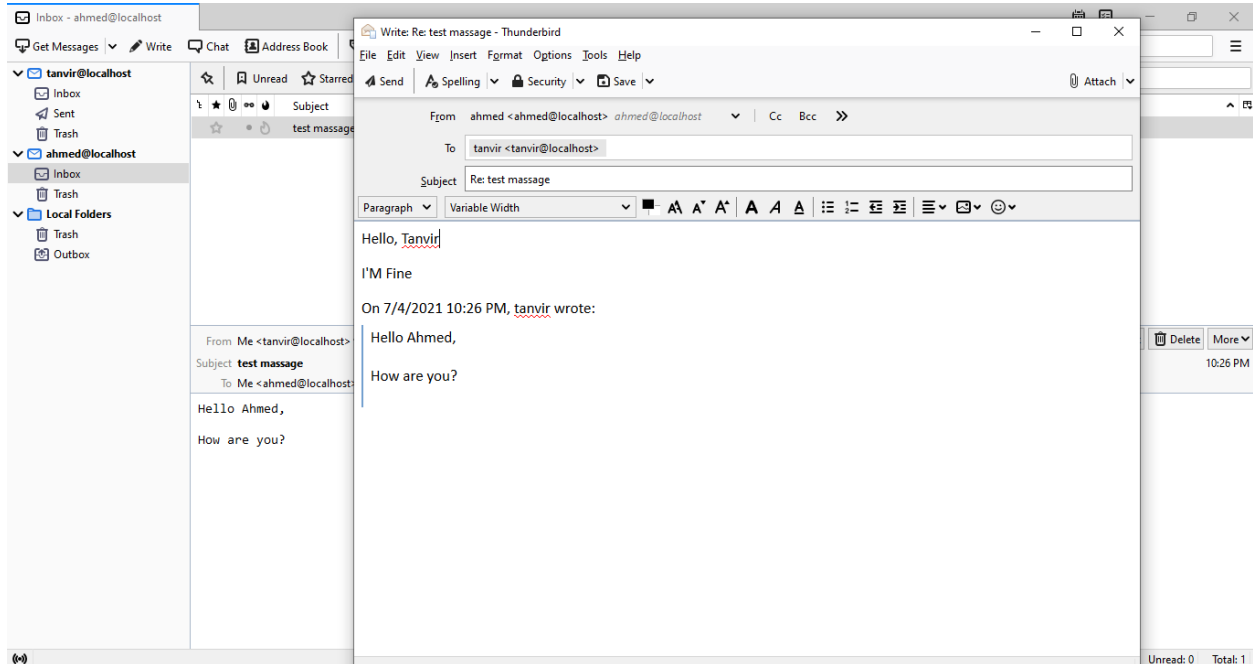
DESIGN:

<u>Simulation in cisco packet tracer server:</u>

Cisco Packet Tracer - E:\ZOOM Class\Computer Networking Lab(Montaser Abdul Quader)\All Lab Report\Lab Report 01\Demonstrate the configuration of POP3 SMTP server in simulation.pkt

File   Edit   Options   View   Tools   Extensions   Window   Help

192.168.1.10

Physical   Config   **Desktop**   Programming   Attributes

Compose Mail

| Send | To: | user2@tanvir.com |
| | Subject: | first email |

Hello,Tanvir

☐ Top

PC-PT 192.168.1.10
PC-PT 192.168.1.20
192.168.1.0
2960-24TT Switch0
PC-PT 192.168.1.30
PC-PT 192.168.1.40

Time: 01:36:58

Copper Straight-Through

Cisco Packet Tracer - E:\ZOOM Class\Computer Networkin...

File   Edit   Options   View   Tools   Extensions   Window

192.168.1.20

Physical   Config   **Desktop**   Programming   Attributes

MAIL BROWSER

Mails

| Compose | Reply | Receive | Delete | Configure Mail |

	From	Subject	Received
1	user1@tanvir.com	first email	Sun Jul 4 2021 21:14:30

first email
user1@tanvir.com
Sent : Sun Jul 4 2021 21:14:30

Hello,Tanvir

Receiving mail from POP3 Server 192.168.2.200
Receive Mail Success.

Cancel
Send/Receive

☐ Top

PC-PT 192.168.1.20
PC-PT 192.168.
192.168.1.0
PC-PT 192.168.1.30
PC-PT 192.168.1.40

Time: 01:37:28

Copper Straight-Through

Simulation in real environment by mozilla thunderbird :

IMPLEMENTATION:

1) Configure Server to send (SMTP) and receive (POP3) Email:

a. Click Central Server, and then select the Services tab followed by the EMAIL button.

b. Click On to enable the SMTP and POP3.

c. Set the domain name to central **tanvir.com** and click Set.

d. Create a user named **user1** with password **123456**. Click + to add the user.

2) Configure All PC to use the Central Server email service:

a. Click all PC one by one and click the Desktop tab > E-Mail.

b. Enter the following values into their respective fields:

1) User Name: user1, user2, user3, user4, user5

2) Email Address: user1@tanvir.com, user2@tanvir.com, user3@tanvir.com, user4@tanvir.com, user5@tanvir.com

3) Incoming Mail Server: 192.168.2.200

4) Outgoing Mail Server: 192.168.2.200

5) User Name: user1, user2, user3, user4, user5

6) Password: 123456

7) Click Save. The Mail window displays.

OUTPUT:

1) From the **user1** Mail window, click Compose.

2) Enter the following values into their respective fields:

  i) To: user1@tanvir.com

  ii) Subject: test email

  iii) Email Body: Hello, Tanvir

  iv) Click Send.

  v) Now **user2** received the email.

SUMMARY:

i) Using Cisco Packet Tracer we can send emails from within Cisco software via SMTP and receive messages through POP3.

ii) Using **Mozilla thunderbird** we can make the computer a server and practically email from one user to another.

1. Differentiate between POP3 and IMAP protocol

Ans:

POP3 (Post Office Protocol)	IMAP (Internet Messaging Access Protocol)
Emails can only be accessed from a single device.	Messages can be synced and accessed across multiple devices
Speed is faster	Speed is slow
It is simple and has limited functions.	It is more powerful, more complex and has more features over POP3.
POP3 supports single device to access the mail at a time.	IMAP supports multiple devices which can access the mail at a time.
It does not allow to organize the mails on the server.	It allows the user to organize the mails on the server.

Thank You