Task 1 - Interact with an SMTP server

Q. Capture the successful SMTP exchange in your terminal session and submit as a text document

Last login: Fri Sep 10 11:45:55 2021 from 149.160.252.53

abkuma@silo:~$ telnet mail-relay.iu.edu 25

Trying 129.79.1.38...

Connected to mail-relay.iu.edu.

Escape character is '^]'.

220 Sendmail ESMTP - IU Campus Communications Team - Mail-Relay

HELO google.com

250 mail-relay.iu.edu Hello silo.luddy.indiana.edu [129.79.247.195], pleased to meet you

MAIL FROM : abkuma@iu.edu

250 2.1.0 abkuma@iu.edu... Sender ok

RCPT TO : sice-networks-l@list.indiana.edu

250 2.1.5 sice-networks-l@list.indiana.edu... Recipient ok

DATA

354 Enter mail, end with "." on a line by itself

Subject : "Abhinav Kumar Assignment 01 SMTP"

.

250 2.0.0 18AFoi4U001201 Message accepted for delivery

QUIT

221 2.0.0 mail-relay.iu.edu closing connection

Connection closed by foreign host.

abkuma@silo:~$

Q. What happens when you try to send to a non-IU email address? Why?

```
Last login: Fri Sep 10 11:50:29 2021 from 149.160.252.53
abkuma@silo:~$ telnet mail-relay.iu.edu 25
Trying 134.68.220.47...
Connected to mail-relay.iu.edu.
Escape character is '^]'.
220 Sendmail ESMTP - IU Campus Communications Team - Mail-Relay
HELO google.com
250 mail-relay.iu.edu Hello silo.luddy.indiana.edu [129.79.247.195], pleased to meet you
MAIL FROM : abkuma@iu.edu
250 2.1.0 abkuma@iu.edu... Sender ok
RCPT TO : search4abhinavkr@gmail.com
550 5.7.1 search4abhinavkr@gmail.com... Relaying denied. Proper authentication required.
```

If we are trying to send an email to non-IU email, then mail server will deny from sending the email. It is because IU email server restrict the sender which are not in their domain for the safety purpose.

Q. What happens when you use a made-up from address? Why?

```
Last login: Fri Sep 10 12:39:29 2021 from 149.160.252.53
abkuma@silo:~$ telnet mail-relay.iu.edu 25
Trying 134.68.220.47...
Connected to mail-relay.iu.edu.
Escape character is '^]'.
220 Sendmail ESMTP - IU Campus Communications Team - Mail-Relay
HELO google.com
250 mail-relay.iu.edu Hello silo.luddy.indiana.edu [129.79.247.195], pleased to meet you
MAIL FROM : thisisfakeemail@gmail.com
250 2.1.0 thisisfakeemail@gmail.com... Sender ok
RCPT TO : abkuma@iu.edu
250 2.1.5 abkuma@iu.edu... Recipient ok
DATA
354 Enter mail, end with "." on a line by itself
Subject : This sender email id is made up one
.
250 2.0.0 18AGjKbu011331 Message accepted for delivery
QUIT
221 2.0.0 mail-relay.iu.edu closing connection
Connection closed by foreign host.
abkuma@silo:~$
```

This sender email id is made up one

T   thisisfakeemail@gmail.com
     Fri 9/10/2021 12:47 PM

Reply | Reply all | Forward

The mail server is not authenticating from address and only validating the to address so email can be send from the made-up email.