ASSIGNMENT01
VINAYAKA GADAG

TASK 1: Interact with an SMTP server

```
1. vgadag@silo:~$ nc mail-relay.iu.edu 25
2. 220 Sendmail ESMTP - IU Campus Communications Team -
   Mail-Relay
3. helo
4. vgadag@silo:~$ nc mail-relay.iu.edu 25
5. 220 Sendmail ESMTP - IU Campus Communications Team -
   Mail-Relay
6. helo google.com
7. 250 mail-relay.iu.edu Hello silo.luddy.indiana.edu
   [129.79.247.195], pleased to meet you
8. MAIL FROM: vgadag@iu.edu
9. 250 2.1.0 vgadag@iu.edu... Sender ok
10. RCPT TO: sice-networks-l@list.indiana.edu
11. 250 2.1.5 sice-networks-l@list.indiana.edu...
    Recipient ok
12. DATA
13. 354 Enter mail, end with "." on a line by itself
14. Subject: "Vinayaka Gadag Assignment01 SMTP"
15. .
16. 250 2.0.0 185I4NPV002419 Message accepted for delivery
```

What happens when you try to send to a non-IU email address? Why?
- We get 'Relaying denied. Proper authentication required.' message.
- This is because the domain other than IU needs to be validated or authenticated before we send an email. Otherwise, anyone can send email to anyone that will open for attacks. It is evident that

mail servers will not relay message from anyone not in the domain.

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

```
1.   MAIL FROM: tikamasala@iu.edu
2.   250 2.1.0 tikamasala@iu.edu... Sender ok
```

```
1.   MAIL FROM: tikamasal@gof.com
2.   250 2.1.0 tikamasal@gof.com... Sender ok
3.   RCPT TO: vgadag@iu.edu
4.   250 2.1.5 vgadag@iu.edu... Recipient ok
5.   DATA
6.   354 Enter mail, end with "." on a line by itself
7.   This is test email
8.   .
9.   250 2.0.0 185IZQtP015106 Message accepted for delivery
10.
```

- We can successfully send an email from made-up email address to an IU domain email address. It is because it only checks if the SMTP relay server can contact or validate the destination server. It really doesn't matter if the FROM email address is a valid email address or not.