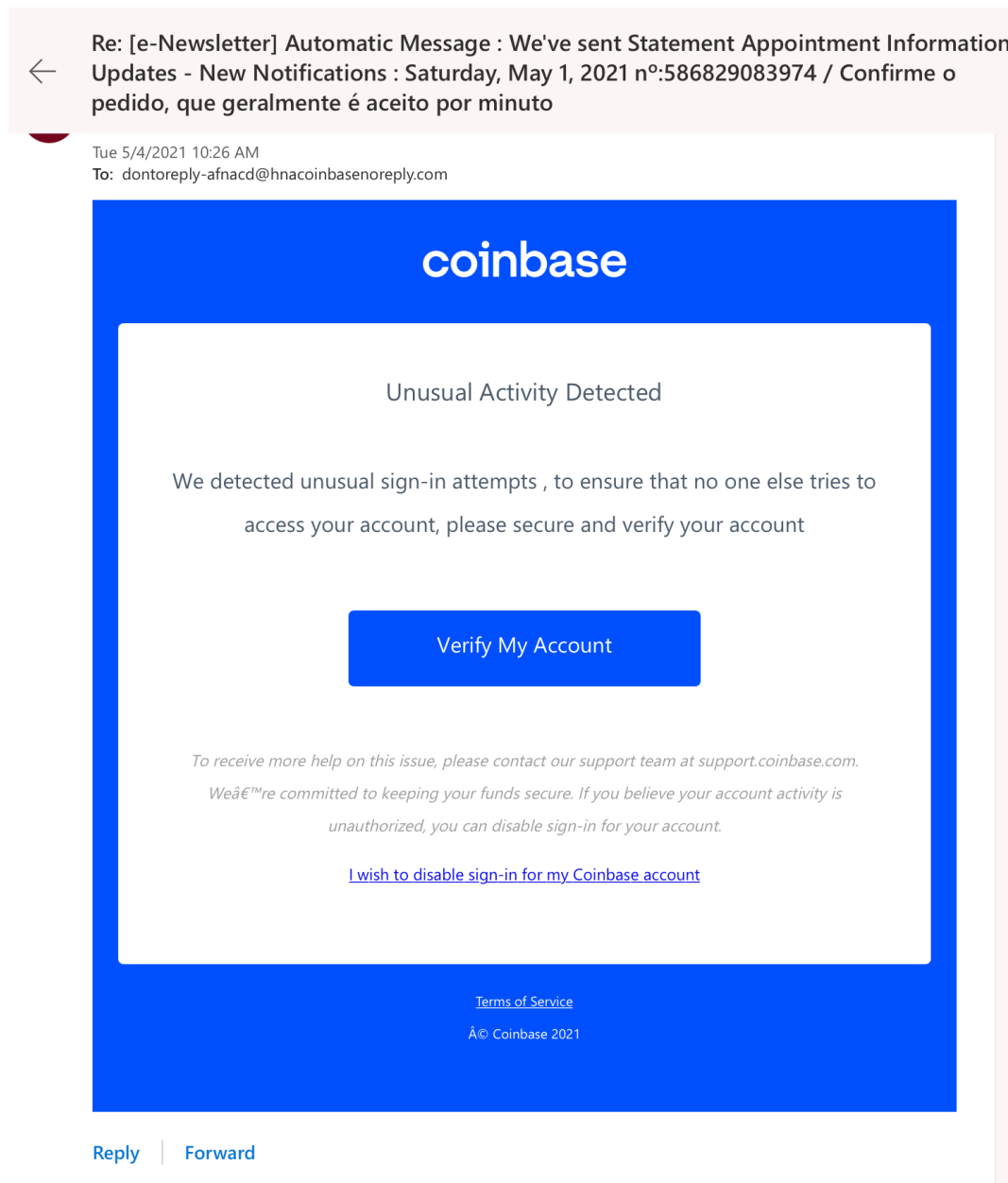


Final: COSC 1000

Instructions: Submit a **pdf** (not a doc or docx file) via the dropbox by the deadline. Other than the code, you only need to write a short paragraph for each answer.

Problem 1:

1. I received the following email message. Don't worry about the mix of English and Brazilian Portuguese, I spent time in Latin America. What is the emotion that this attempt at social engineering is trying to create in me.



← Re: [e-Newsletter] Automatic Message : We've sent Statement Appointment Information Updates - New Notifications : Saturday, May 1, 2021 n°:586829083974 / Confirme o pedido, que geralmente é aceito por minuto

Tue 5/4/2021 10:26 AM
To: dontoreply-afnacd@hnacoinbasenoreply.com

coinbase

Unusual Activity Detected

We detected unusual sign-in attempts , to ensure that no one else tries to access your account, please secure and verify your account

[Verify My Account](#)

*To receive more help on this issue, please contact our support team at support.coinbase.com.
We're committed to keeping your funds secure. If you believe your account activity is unauthorized, you can [disable sign-in for your account](#).*

[I wish to disable sign-in for my Coinbase account](#)

[Terms of Service](#)
© Coinbase 2021

[Reply](#) | [Forward](#)

2. This message makes no sense unless I have an account on coinbase. Why did I receive this message anyway and what is the strategy of attacks like this.

Problem 2:

On your employer's campus, you find an unsecured wireless access point. When you point out the dangers, you are told that the campus is gated and no-one can come within 100 yards of the access point without authorization. What do you respond to show that this is not secure?

Problem 3:

Describe a way in which I (your professor) can spear-phish you (a student of mine), using a malicious link as the attack tool.

Problem 4:

You are given the following file. It is a CSV file with three columns. A time stamp (an integer) is in the first column. The second and third column contain exchange rates for a fictitious currency and US dollars. Display the information in a graph with a legend. Use different colors for each graph.

Problem 4 (Alternative):

Write two python programs. The first converts fathoms to meters. The program asks the user for a distance. After the user enters the distance in fathoms and hits ENTER or RETURN (depending on the keyboard), the program writes out the distance in meters.

The second program prints out all numbers (on separate lines) between 100 and 100000 that fulfill the following conditions simultaneously:

- The number is divisible by 13 (Hint: $x\%13$ gives the remainder when dividing x by 13)
- The number divided by 25 has remainder 3.