Activity 1.1.3 - Have YOU Been Pwned?

Apply the Have I Been Pwned tool to check whether an email address has appeared in any data breaches and use the information to increase online security.

A. Inventory - guesstimate how many of the following types of accounts you currently have:

1.	Social Media	how many?	Ex: Facebook, Instagram, TIkTok
2.	Gaming/Networking	how many?	Ex: Steam, Discord, forums
3.	Shopping	how many?	Ex: Amazon, Etsy, coupon sites
4.	Entertainment	how many?	Ex: Netflix, Hulu, AppleTV
5.	Other	how many?	Ex: Hobbies, Subscriptions
		TOTAL	
6.	How many email addresses do you have?		

- B. Breaches go to the Have I Been Pwned? website https://haveibeenpwned.com/ and enter each of your email addresses to see if it has been found in any data breaches.
 - 1. For each email address, in the space below write down the number of times it was found in a data breach. Do NOT write down the email address, just the number.
 - 2. Once you have looked up all your email addresses, add up all the numbers. What is the total number of data breaches in which your addresses were found? _____3. For those breached accounts, how many were using a unique password?

Reflection: stolen user databases include both the username - usually an email address - and the password for that account. This means that any account using the same credentials will be vulnerable to a credential stuffing account.

(unique = a password that is used only for one account)

For example, I log into Amazon with username: bgrad202@school.edu and password: qwerty5678. Then I create an account at Discord (and lots of other sites!) using the same email address and password. If the Discord user database is breached, then a credential stuffing account would be able to access my Amazon account even though Amazon is secure and hasn't been breached.

To protect against credential stuffing attacks use a unique password for every account. This is very difficult to do manually but easy with a password manager.



