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| **Name:** | **Date:** |
| **Course/Section:** |  |

**Password Cracking**

**Part 1: Test Password Security**

Visit the following URL: <https://lowe.github.io/tryzxcvbn/>

This website estimates the strength of passwords you enter. Passwords never leave your browser – if you are so inclined, you can confirm as much by perusing the source code and/or by opening your browser developer tools and observing the script that runs when you enter passwords.

1. Try normal passwords like **qwerty,** **password123, zxcvb** and **godislove**. How fast the website did guess the passwords?
2. What algorithm/s did the website used to guess the passwords?
3. Try one of your personal passwords. What is the result?
4. Try creating a **passphrase** (ex. “Never gonna give you up” will be **neg0g1youp**). What passphrase have you created and what was the result?

**Part 2: Check your Account for a Prior Data Breach**

1. Check to see if one of your online accounts has already been breached.

Visit: <https://haveibeenpwned.com> and type in one of your email accounts or usernames to see if it has already been compromised in a data breach.

1a. Try your lpunetwork account. What was the result?

1b. Try your personal email account. What was the result?

1. Next visit: <https://haveibeenpwned.com/Passwords> and try out some passwords to see if they have already been compromised in a data breach.

2a. Try the password you’re using with your student account. What was the result?

2b. Try some of your personal passwords. What was the result?

**Part 3: Check for Sites/Systems which Support Two-Factor Authentication**

1. Visit: <https://2fa.directory/> and check for the **Banking** category. Choose at least 3 and answer the following questions.
   1. What websites have you chosen? Write them below and give a short summary on what the website is about.
   2. In your own opinion, is it necessary for them to have two-factor authentication? Why / Why not?
2. Check for the **Gaming** category. Choose at least 3 and answer the following questions.
   1. What websites have you chosen? Write them below and give a short summary on what the website is about.
   2. In your own opinion, is it necessary for them to have two-factor authentication? Why / Why not?