

Secure Software development: **Project 1**

Points Possible: 100

Deadline: 11:59pm Tuesday October 8th 2024

Goals:

- To learn about Brute Force Dictionary Attack.
- To write a very simple python program

Description:

Alice, Bob, Charlie, Daniel, and Emily have their credentials stored on a system. Given only their usernames known to public, your goal is to launch a brute force dictionary attack using best1050.txt to find out their passwords. In the system, the login() function takes username and password as input. It returns True if successfully logged in and False if otherwise.

Programming Environment:

Python 3.

Requirements:

1. (5 points) **Use comments to provide a heading at the top of your code** containing your name, NCU Student ID, and e-mail.
2. (5 points) Your source code file should be named as **“project1_LastName_UserID.py”**. (e.g. project1_Harn_982001510.py)
3. (80 points) Answer the questions from Project1_Questions.doc
4. (10 points) Usability of your program (Good Comment Practices).

You will **lose points** if you: do not use the specific program file name, or do not have a comment block on **EVERY** program you hand in. You will lose **at least 40 points** if there are compilation errors or warning messages when we compile your source code.

Deliverables:

- A heading at the top of your code contains your name, student ID, and e-mail.
- Compress your **source code file** and **the answers** from Project1_Questions.doc into a zip file named as “project1_LastName_StudentID.zip”. Finally, submit the zip file through the **eeClass** system.

Late Submission Penalty:

- After the 11:59pm on the due day, you can't submit your assignment anymore. Late assignments through e-mail will receive a 20% deduction per day penalty.

Rebuttal period:

- You will be given a period of 2 business days to read and respond to the comments and grades of your homework or project assignments. The TA may use this opportunity to address any concern and question you have. The TA also may ask for additional information from you regarding your homework or project.