

Lab 2
COMPSFI 212
Due: 09/04/2025 @ 11:59pm

Pre-Lab

- Python 3.9+ installed
- Text editor or IDE

Part 1: Your First Login Checker (Valid Accounts)

1. Open your editor and create a file called `login_checker.py`.
2. Write a program that:
 - Asks the user for a username (`input("Enter username: ")`).
 - Asks for a password.
 - If username = "admin" and password = "admin123", print "LOGIN SUCCESS".
 - Otherwise, print "LOGIN FAILED".
3. Run your script three times, trying different inputs.

Deliverable: Screenshot of three runs (one successful, two failed).

Part 2: Simple Brute Force with a Loop

Create a file called `bruteforce_simulator.py`.

- Inside it:
- Make a dictionary of accounts like:

```
accounts = {"admin": "admin123", "user": "password", "guest": "guest"}
```

- Write a loop that lets the user try **3 times**.
- Each time, ask for a username and password.
- If it matches, print "Success for USERNAME" and stop the loop.
- If it fails, print "Failed attempt" and keep going.
- At the end, print how many failures happened.

Deliverable: Screenshot showing at least one success and one failure.

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Part 3: Counting Failed Logins from a File

1. Create a file called `login_log.txt` with at least 8 lines. Example:

```
LOGIN_FAIL user=admin ip=10.0.0.1
LOGIN_FAIL user=admin ip=10.0.0.1
LOGIN_OK   user=student ip=10.0.0.2
LOGIN_FAIL user=guest ip=10.0.0.3
```

2. Create `failed_counter.py`. It should:

- Open `login_log.txt`.
- Loop through each line.
- Count how many lines have `LOGIN_FAIL`.
- Print:

```
Total failed logins: X
```

3. Bonus (if comfortable): Also count **per user** (e.g., admin: 2, guest: 1).

Deliverable: Screenshot of your script output.