

CYBER SECURITY INTERNSHIP



Task 10: Password Strength Analyzer

Objective: Build a tool in Python that checks password strength based on rules.

Tools: Python, VS Code or Jupyter

Deliverables: password_checker.py,Sample input/output screenshots

Hints/Mini Guide:

- Use any(), isupper(), isdigit(), len()
- Example strong: S@fep4ss123

Outcome: Understand password vulnerabilities and how to test for strong passwords.

Interview Questions:

- 1. What makes a password strong?
- 2. How can passwords be stored securely?
- 3. What is hashing and salting?
- 4. What is brute force attack?
- 5. What are common password mistakes?
- 6. How does two-factor authentication work?
- 7. What are password managers?
- 8. What is the role of regex in password validation?
- 9. How can password policies be enforced in companies?
- 10. What is social engineering in cybersecurity?

Key Concepts: Cyber Hygiene, Password Policy, Input Validation



CYBER SECURITY INTERNSHIP



🔭 Task Submission Guidelines

Time Window:

You've got a 12-hour window—from 10:00 AM to 10:00 PM—to give your best. It's your time to shine. But remember, once the clock hits 10:00 PM, submissions close.

Self-Research Allowed:

You're not alone—but we believe in your ability to explore and grow. Feel free to use Google, YouTube, or any learning resource. Learning how to learn is your biggest strength.

X Debug Yourself:

Mistakes? Perfect. That's how real learning happens. Try solving issues on your own—it'll build your confidence and sharpen your problem-solving skills for the future.

No Paid Tools:

We value learning over luxury. If any task points to a paid tool, skip it. Don't spend a single rupee. Just search for free, open-source options—we promise, it's part of the real-world hustle.

GitHub Submission:

For each task, start fresh. Create a new GitHub repo.

Upload everything you used—your code, dataset, screenshots (if any), and a short README.md. That README is your story—tell us what you built, why, and how.

Submission:

When you're done and proud of what you've built, drop your GitHub repo link through the submission form. Let your work speak for you.

