Task 6 : Create a Strong Password and Evaluate Its Strength.

- **Objective: Understand what makes a password strong and test it against password strength tools.**
- **Tools: Online free password strength checkers (e.g., passwordmeter.com).**
- **Deliverables: Report showing password strength results and explanation.**

Hints/Mini Guide:

1. Create multiple passwords with varying complexity.
2. Use uppercase, lowercase, numbers, symbols, and length variations.
3. Test each password on password strength checker.
4. Note scores and feedback from the tool.
5. Identify best practices for creating strong passwords.
6. Write down tips learned from the evaluation.
7. Research common password attacks (brute force, dictionary).
8. Summarize how password complexity affects security.

Outcome: Understanding password security and best practices.

Interview Questions:

1. What makes a password strong?
2. What are common password attacks?
3. Why is password length important?
4. What is a dictionary attack?
5. What is multi-factor authentication?
6. How do password managers help?
7. What are passphrases?
8. What are common mistakes in password creation?

Key Concepts: Password strength, brute force attack, dictionary attack, authentication, best practices.

📤 **Submit Here:**
After completing the task, paste your GitHub repo link and submit it using the link below:

- 👉 [Submission Link]

📌 **Task Submission Guidelines**

- ⏰ **Time Window:**

You can complete the task anytime between 10:00 AM to 10:00 PM on the given day. Submission link closes at 10 :00 PM

- 🔍 **Self-Research Allowed:**

You are free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

- 🛠️ **Debug Yourself:**

Try to resolve all errors by yourself. This helps you learn problem-solving and ensures you don't face the same issues in future tasks.

- 💸 **No Paid Tools:**

If the task involves any paid software/tools, do not purchase anything. Just learn the process or find free alternatives.

- 📁 **GitHub Submission:**

Create a new GitHub repository for each task.
Add everything you used for the task — code, datasets, screenshots (if any), and a **short README.md** explaining what you did.

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