Task 8 : Keylogger Creation for Educational Use

Objective: **Build a keylogger in Python to understand how attackers capture keystrokes.**

Tools : **Python, pynput**

Deliverables: **Source code, captured logs, usage demo**

Hints/Mini Guide:

Use pynput to monitor keyboard activity. Log keys to a file.

Outcome:Gain awareness of keylogging methods and how to detect/prevent them.

Interview Questions:

1. What is a keylogger?
2. How do keyloggers capture keystrokes?
3. What are ethical concerns with keyloggers?
4. How do you build a basic keylogger in Python?
5. What libraries are used for keylogging?
6. How can users detect a keylogger?
7. How does antivirus software detect keyloggers?
8. What is the purpose of keyloggers in attacks?
9. What is responsible disclosure?
10. What is the risk of allowing background scripts?

Key Concepts: **Keylogging, Keyboard Events, Python Automation, Security Awareness**

🌟 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.

🛠️ 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.