◆ TASK 10: Object-Oriented Programming (OOP)

Tools:

- Python
- VS Code

Hints / Mini Guide:

1. Create bank_account.py.
2. Define class and constructor.
3. Create attributes and methods.
4. Implement encapsulation.
5. Use inheritance.
6. Override methods.
7. Create multiple objects.
8. Simulate real bank operations.
9. Add comments and structure.

Deliverables:

- OOP based Python program

Final Outcome:

- Intern understands software design.

Interview Questions Related To Above Task:

- What is OOP?
- Encapsulation meaning?
- Inheritance example?
- Polymorphism?
- Why OOP over procedural?

📌 **Task Submission Guidelines**

- ⏰ **Time Window:**
Youcan 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:**
Youare free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

- 🛠️ **Debug Yourself:**
Tryto 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:**
Ifthe 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.

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

- 👉 [Submission Link]