

◆ TASK 4: Loops & Iterations

Tools:

- Python
- VS Code

Hints / Mini Guide:

1. Create loop_tasks.py.
2. Use for loop to print numbers 1–100.
3. Use while loop for countdown timer.
4. Implement break and continue.
5. Iterate over string characters.
6. Generate multiplication table.
7. Use range with steps.
8. Combine loop with conditions.
9. Add real-world examples.

Deliverables:

- Loop demonstration script

Final Outcome:

- Intern understands iteration and automation.

Interview Questions Related To Above Task:

- for vs while loop?
- When to use break?
- What is infinite loop?
- What is range?
- Loop optimization techniques?

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.

Submit Here:

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

-  [\[Submission Link\]](#)

