

◆ TASK 6: Lists, Tuples & Sets

Tools:

- Python
- VS Code

Hints / Mini Guide:

1. Create collections_demo.py.
2. Store student names in list.
3. Add, remove, sort elements.
4. Use tuple for fixed data.
5. Convert list to set to remove duplicates.
6. Perform set operations.
7. Iterate over collections.
8. Compare mutable vs immutable.
9. Print formatted outputs.

Deliverables:

- Collection operations script

Final Outcome:

- Intern understands data structures.

Interview Questions Related To Above Task:

- List vs tuple?
- Why sets are unordered?
- When to use tuple?
- How to remove duplicates?
- Time complexity basics?

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:

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

