Aror University of Art, Architecture, Design & Heritage Sukkur.

Department of Artificial Intelligence and Multimedia Gaming

<u>Programming for AI (Spring-2025)</u>
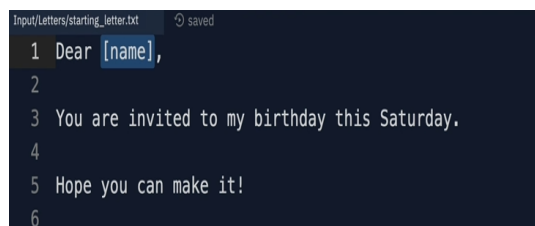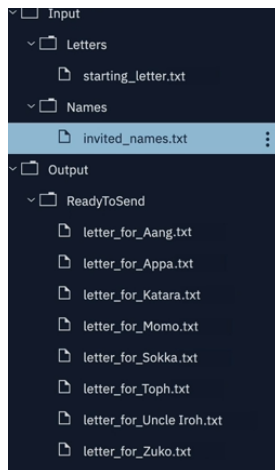## <u>LAB#05</u>

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Objective of Lab No. 5:

After performing lab5, students will be able to:

- Implement File Handling

- Opening, Reading, Writing, Appending to a file

Task#01 Mail Merge Challenge:

Instructions:

1. Read the invited_names.txt file
2. Replace the name place holder in starting_letter.txt
3. Generate a new file in Output Directory with the same name

Task#02 : Expense Tracker

Create a simple **expense tracker** program that allows users to **add, view, and delete expenses** stored in a text file.

Requirements:

1. **Create and Write Expenses**:

   o The program should allow users to add expenses with the following details:

      ▪ Date (YYYY-MM-DD)

      ▪ Description

      ▪ Amount

   o The expenses should be saved in a file named expenses.txt in the format:

      2025-02-10, Groceries, 50.75

      2025-02-11, Transport, 15.00

2. **View Expenses**:

   o The program should read the expenses.txt file and display all expenses in a user-friendly format.

3. **Delete an Expense**:

   o The user should be able to delete an expense by entering the date and description.

   o The program should update the file and remove the matching expense.

Task#03: To-Do List

- Create a simple to-do list program that allows users to add, view, and mark tasks as done using a text file.

- **Requirements:**

   - Add a Task: The program should allow users to add a task.

   - Tasks should be stored in a file named todo.txt in this format

      - [ ] Buy groceries

      - [ ] Finish homework

      - [ ] Call Mom

- View Task: The program should read and display the tasks from todo.txt.

- Mark a Task as Done: The user can enter the task name to mark it as completed.

- The program should update the file and replace [ ] with [X].