

Assignment Guidelines

Students must create a system using the PYTHON language based on the requirements. The details of the assignment:

1. Assignment Title Registration.

- a) The leader must register the title in the link [HERE](#). The title will be entitled on a first-come, first-serve basis.
- b) Due date: **18 April 2025 Friday (Week 4) before 5.00 pm.**
- c) Minimum and Maximum no of students: 4 persons.

2. Assignment Submission.

- a) Softcopy (Submit to eBwise) Submit by the Group Leader:
 - i. Assignment Evaluation Form.
 - ii. Report file. Example:
 - iii. The source code is in the .py file. Name the file according to your group number and title. Example: GROUP_1 Online Banking System.py)
 - iv. The text files that contain the data of the data stored system (Example: product.txt).
 - v. Presentation Video. (Example : GROUP_1.mp4)
- b) Due date: **26 May 2025 Monday (Week 10) before 5.00 pm.**

3. Assignment Descriptions:

In this assignment, you must develop a mini information system consisting of a business program that gets user input and displays the output. Create a good business flow system representing a real system to use. You may add any additional functions or algorithms to your system.

1. You should provide at least a total of **10 records** with a minimum of **1000 code lines**. **Exclude/remove empty lines and comments that exist in the code.**
2. Create a **GitHub** repository for version control.
 - The group leader must create the repository and add group members and the lecturer as collaborators.
3. A system which requires you to include these functions:
 - a) **Two modules:**
 - User- Regular user functionalities
 - Admin modules - Administrative and management functionalities.
 - b) **Functions** for both modules:
 1. Register for user.
 2. Login and Logout : user and admin.
 3. Display information or menu : user and admin.
 4. Add new Record. Make a reservation or add to the cart : user. Add/update product : admin.
 5. Edit/Update Record : user and admin.
 6. Make a payment : user.
 7. Update reservation status : admin.

8. Display the receipt to text file : user and admin.
9. Display record : user and admin. Show all possible calculations on price or total item/price/value.
10. Search record : user and admin.
11. Sort record : user and admin.
12. Delete record : admin.
13. Summary report : admin. Example: monthly sale.
14. Read/Write the input/output from/to the .txt file.

c) Requirements:

1. Apply at least THREE (10) functions in the system.
2. Apply at least TWO (5) control structures.
3. Apply at least TWO (5) looping statements.
4. Apply at least TWO (2) file processing for read, write, or append.

d) Report:

The report must be in the PDF file format only. Student need to write a complete report, including a cover page and the document must consist of the following:

1. Introduction
 - Topic selection
 - System overview and description
 - Objectives of the project
 - Scope and limitations
 - Key system features
2. Methodology (the system functions in detail).
 - Explain how you store and organize data in memory
 - Explain the sorting and searching algorithms applied
 - Mention any additional algorithms used beyond core requirements
3. System Features & Output (Screenshots). Include the user interface of the system.
4. Python implementation/code.
5. Conclusion.
6. Appendix.
 - References & Bibliography. All URLs are used.
 - AI Tool Usage.
 - State the AI tools such as ChatGPT.
 - Screenshots of the parts that were AI-assisted and how they were implemented.
 - Git Log (Screenshots)
 - Show a list of commits from your repository.
 - Include contribution logs from all group members
 - Use git log to display and explain team collaboration history

e) Important Guidelines for algorithm Implementation

- Do not use any built-in functions or libraries for algorithm implementation.
- All code must be original, written manually, and visible in the source file.
- The program should rely on raw arrays, pointers, and your own logic for implementing the complete system.
- Do not use any imported file.
- All code must be written in one file only and name it with your group name. Example: Group1.py.
- Error handling mechanisms should be implemented in both the User and Staff/Admin modules. Example: User enters the wrong password; the system should display an alert message. If more than 3 times enter the wrong password, the system should terminate.

4. Group Presentation Video:

a) Presentation Guidelines

- The presentation must show every single function in the system that starts from the user module and ends at the admin module.
- The presentation must include all the text files such as receipt/ summary report/ user/admin/product.
- Allocated time must be at least 30 minutes.
- Presentation must involve all members. During the presentation, student must show their face.
- The presentation video extension must be mp4.

b) Presentation Requirements

- Formal attire is mandatory for all presenters. The beginning of the video must show the student's attire.

Important Notes:

- **No late submission is accepted.**
- **Copying or other forms of cheating is forbidden (0 marks to all members involved).**

Mark Deduction for report similarity percentage and AI :Any (Report Similarity or AI Writing Detection) %	Deduction Mark Report	Deduction Mark Python(Code)
20%-30%	10%	10%
40%-50%	20%	20%
60%-70%	30%	30%
80%-90%	40%	40%
100%	50%	50%