Open Source Software Lab

Evaluation 1

Thursday (29 August 2024) – 3 to 5 PM

Time Duration: 50 Minutes **Maximum Marks: 15**

SET A (ODD MACHINE)

Q.1 Develop a Python program to manage a shopping list. Use a list to store items that need to be purchased. Implement functions to add an item to the list, remove an item by its name, search for an item to see if it's on the list, and display the current shopping list.

Functions to Implement:

- add_item(item: str): Add a new item to the shopping list.
- remove_item(item: str): Remove an item from the list by its name.
- search_item(item: str) -> bool: Check if an item is on the list and return True if it is, otherwise False.
- display_list(): Display the current shopping list.

SET B (EVEN MACHINE)

Q.1 Create a Python program to track the attendance of students in a class. Use a list to store the names of students who are present on a given day. Implement functions to mark a student as present, remove a student from the present list (if they leave early, for example), check if a student is present, and display the list of present students.

Functions to Implement:

- mark_present(student_name: str): Add a student to the attendance list.
- remove_student(student_name: str): Remove a student from the attendance list.
- is_present(student_name: str) -> bool: Check if a student is marked as present and return True if they are, otherwise False.
- display_attendance(): Display the list of students who are present.

Note: Upload a word file on Google Classroom which contains the following:

• Link to your GitHub account

• Codes for questions 1 along with the URL of the repository