**1. Student Marks Management System**

* Store marks of students in an array.
* Calculate **average, highest, lowest, total**.
* Find which student scored above/below average.
* Extra: Sort marks in ascending/descending order.

👉 Concepts used: array traversal, min/max, sum, sorting.

**🔹 2. Library Book Tracking**

* Store a list of book IDs (or names).
* Allow searching whether a book is present or not.
* Add/remove a book (replace value with -1 or shift array).

👉 Concepts used: linear search, insertion, deletion.

**🔹 3. Bank ATM Mini System**

* Store account balances in an array (each index = one account).
* Deposit, Withdraw, Check Balance by entering account number.
* Validate sufficient balance before withdrawal.

👉 Concepts used: indexing, condition checks, update array values.

**🔹 4. Voting System**

* Store vote counts in an array for each candidate.
* Increment the vote when someone votes.
* Display total votes & find the **winner candidate**.

👉 Concepts used: counting, max element finding.

**🔹 5. Simple Inventory System**

* Store stock quantities of items in an array.
* When an item is sold → reduce stock.
* When restocked → increase stock.
* Show out-of-stock items.

👉 Concepts used: array updates, search, conditions.

**🔹 6. Quiz Score Tracker**

* Store scores of players in an array.
* Display highest scorer, lowest scorer.
* Find players who crossed a passing threshold.

👉 Concepts used: min/max, condition checks.

**🔹 7. Temperature Analyzer**

* Store daily temperatures in an array.
* Find hottest & coldest day.
* Calculate average temp.
* Find days above average.

👉 Concepts used: math on arrays.

**🔹 8. Duplicate Finder**

* Store numbers in an array.
* Identify if any number is repeating.
* Count how many times each number appears.

👉 Concepts used: nested loops, frequency count.

**🔹 9. Movie Rating System**

* Store ratings (1–5) given by users in an array.
* Find average rating.
* Count how many 5-star, 4-star, etc.

👉 Concepts used: frequency, average.

**🔹 10. Simple To-Do List**

* Store tasks as strings in an array.
* Mark a task as completed (set as “done”).
* Display pending vs completed tasks.

👉 Concepts used: arrays of strings, updates.