**Exercise 4: Employee Management System**

**1. Understand Array Representation**

* Arrays store elements in contiguous memory.
* Access time is O(1).
* Limitation: Fixed size and expensive insertions/deletions.

**2. Setup**

Define an Employee class with:

* employeeId
* name
* position
* salary

**3. Implementation**

👉 Visit the code in the repository to see:

* Array-based implementation to add, search, delete, and traverse employee records.

**4. Analysis**

| **Operation** | **Time Complexity** |
| --- | --- |
| Add | O(1) (at end) |
| Search | O(n) |
| Delete | O(n) |
| Traverse | O(n) |

\*Arrays are good for fixed-size, indexable collections.