Exercise 4: Employee Management System using Arrays

Approach and Understanding:

In this task, I have created an **Employee Management System** using arrays to store and manage employee records. Arrays help to store multiple employee details in one place and allow us to quickly access them.

The system allows us to:

* Add new employees
* Search for employees by their ID
* Display all employees
* Remove an employee by ID

I chose **arrays** because they are simple and easy to use when the number of employees is fixed

**Code**

class Employee { String id; String name; String job; double salary;

Employee(String id, String name, String job, double salary) { this.id = id;

this.name = name; this.job = job; this.salary = salary;

}

public String toString() {

return id + " | " + name + " | " + job + " | " + salary;

}

}

public class EmployeeManagement { Employee[] list;

int count;

public EmployeeManagement(int size) { list = new Employee[size];

count = 0;

}

public boolean add(Employee e) { if (count < list.length) {

list[count] = e; count++; return true;

} else {

System.out.println("List full. Can't add."); return false;

}

}

public Employee find(String id) { for (int i = 0; i < count; i++) {

if (list[i].id.equals(id)) { return list[i];

}

}

return null;

}

public void show() { if (count == 0) {

System.out.println("List is empty.");

} else {

for (int i = 0; i < count; i++) { System.out.println(list[i]);

}

}

}

public boolean remove(String id) { for (int i = 0; i < count; i++) {

if (list[i].id.equals(id)) {

for (int j = i; j < count - 1; j++) { list[j] = list[j + 1];

}

list[count - 1] = null; count--;

return true;

}

}

return false;

}

public static void main(String[] args) {

EmployeeManagement em = new EmployeeManagement(10);

em.add(new Employee("E001", "Meena", "Manager", 75000)); em.add(new Employee("E002", "Nina", "Developer", 60000)); em.add(new Employee("E003", "Sara", "HR", 50000)); em.add(new Employee("E004", "Vish", "Tester", 55000));

em.add(new Employee("E005", "Raju", "Analyst", 45000));

System.out.println("Employee List:"); em.show();

System.out.println("\nFinding E002:"); Employee found = em.find("E002");

System.out.println(found != null ? found : "Not found.");

System.out.println("\nRemoving E001:"); boolean removed = em.remove("E001"); if (removed) {

System.out.println("E001 removed.");

} else {

System.out.println("E001 not found.");

}

System.out.println("\nUpdated List:"); em.show();

}

}

**OUTPUT:**

