SUPERSET ID-6413402

**Exercise 4: Employee Management System** (Array Implementation)

CODE:

class Employee {

int employeeId;

String name;

String position;

double salary;

public Employee(int employeeId, String name, String position, double salary) {

this.employeeId = employeeId;

this.name = name;

this.position = position;

this.salary = salary;

}

public String toString() {

return employeeId + " | " + name + " | " + position + " | ₹" + salary;

}

}

public class EmployeeManagement {

Employee[] employees = new Employee[10];

int count = 0;

public void addEmployee(Employee emp) {

if (count < employees.length) {

employees[count++] = emp;

System.out.println("Added: " + emp);

} else {

System.out.println("Array full!");

}

}

public void traverse() {

System.out.println("\nAll Employees:");

for (int i = 0; i < count; i++) {

System.out.println(employees[i]);

}

}

public void searchEmployee(int id) {

for (int i = 0; i < count; i++) {

if (employees[i].employeeId == id) {

System.out.println("Found: " + employees[i]);

return;

}

}

System.out.println("Employee not found!");

}

public void deleteEmployee(int id) {

for (int i = 0; i < count; i++) {

if (employees[i].employeeId == id) {

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

employees[j] = employees[j + 1];

}

employees[--count] = null;

System.out.println("Deleted employee with ID: " + id);

return;

}

}

System.out.println("Employee not found!");

}

public static void main(String[] args) {

EmployeeManagement system = new EmployeeManagement();

system.addEmployee(new Employee(1, "Anjali", "Developer", 50000));

system.addEmployee(new Employee(2, "Rahul", "Manager", 75000));

system.addEmployee(new Employee(3, "Sneha", "Analyst", 45000));

system.traverse();

system.searchEmployee(2);

system.deleteEmployee(1);

system.traverse();

}

}

OUTPUT:

Added: 1 | Anjali | Developer | ₹50000.0

Added: 2 | Rahul | Manager | ₹75000.0

Added: 3 | Sneha | Analyst | ₹45000.0

All Employees:

1 | Anjali | Developer | ₹50000.0

2 | Rahul | Manager | ₹75000.0

3 | Sneha | Analyst | ₹45000.0

Found: 2 | Rahul | Manager | ₹75000.0

Deleted employee with ID: 1

All Employees:

2 | Rahul | Manager | ₹75000.0

3 | Sneha | Analyst | ₹45000.0

