Part C

import java.io.\*;  
import java.util.\*;  
  
class Employee {  
 int id;  
 String name;  
 String designation;  
 double salary;  
  
 Employee(int id, String name, String designation, double salary) {  
 this.id = id;  
 this.name = name;  
 this.designation = designation;  
 this.salary = salary;  
 }  
  
 @Override  
 public String toString() {  
 return "ID: " + id + ", Name: " + name + ", Designation: " + designation + ", Salary: " + salary;  
 }  
}  
  
public class EmployeeManagementSystem {  
 private static final String FILE\_NAME = "employees.txt";  
  
 public static void addEmployee(Employee emp) {  
 try (BufferedWriter bw = new BufferedWriter(new FileWriter(FILE\_NAME, true))) {  
 bw.write(emp.id + "," + emp.name + "," + emp.designation + "," + emp.salary);  
 bw.newLine();  
 } catch (IOException e) {  
 e.printStackTrace();  
 }  
 }  
  
 public static void displayEmployees() {  
 try (BufferedReader br = new BufferedReader(new FileReader(FILE\_NAME))) {  
 String line;  
 while ((line = br.readLine()) != null) {  
 String[] data = line.split(",");  
 System.out.println("ID: " + data[0] + ", Name: " + data[1] + ", Designation: " + data[2] + ", Salary: " + data[3]);  
 }  
 } catch (IOException e) {  
 e.printStackTrace();  
 }  
 }  
  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.in);  
 while (true) {  
 System.out.println("\n--- Employee Management System ---");  
 System.out.println("1. Add Employee");  
 System.out.println("2. Display All Employees");  
 System.out.println("3. Exit");  
 System.out.print("Enter your choice: ");  
 int choice = sc.nextInt();  
 sc.nextLine(); // consume newline  
  
 switch (choice) {  
 case 1:  
 System.out.print("Enter ID: ");  
 int id = sc.nextInt();  
 sc.nextLine();  
 System.out.print("Enter Name: ");  
 String name = sc.nextLine();  
 System.out.print("Enter Designation: ");  
 String designation = sc.nextLine();  
 System.out.print("Enter Salary: ");  
 double salary = sc.nextDouble();  
 Employee emp = new Employee(id, name, designation, salary);  
 addEmployee(emp);  
 System.out.println("Employee added successfully.");  
 break;  
  
 case 2:  
 System.out.println("\nEmployee Records:");  
 displayEmployees();  
 break;  
  
 case 3:  
 System.out.println("Exiting...");  
 sc.close();  
 return;  
  
 default:  
 System.out.println("Invalid choice. Try again.");  
 }  
 }  
 }  
}