q1-

solution:

import java.util.ArrayList;

import java.util.Scanner;

class Employee {

int id;

String name;

double salary;

Employee(int id, String name, double salary) {

this.id = id;

this.name = name;

this.salary = salary;

}

@Override

public String toString() {

return id + ": " + name + " - " + salary;

}

}

public class EmployeeManager {

static ArrayList<Employee> employees = new ArrayList<>();

static Scanner scanner = new Scanner(System.in);

public static void main(String[] args) {

while (true) {

System.out.println("\n1. Add\n2. Update\n3. Remove\n4. Search\n5. Display\n6. Exit");

switch (scanner.nextInt()) {

case 1: add(); break;

case 2: update(); break;

case 3: remove(); break;

case 4: search(); break;

case 5: display(); break;

case 6: return;

default: System.out.println("Invalid choice");

}

}

}

static void add() {

System.out.print("ID: "); int id = scanner.nextInt();

System.out.print("Name: "); scanner.nextLine(); String name = scanner.nextLine();

System.out.print("Salary: "); double salary = scanner.nextDouble();

employees.add(new Employee(id, name, salary));

}

static void update() {

System.out.print("ID to update: "); int id = scanner.nextInt();

for (Employee e : employees) {

if (e.id == id) {

System.out.print("New Name: "); scanner.nextLine(); e.name = scanner.nextLine();

System.out.print("New Salary: "); e.salary = scanner.nextDouble();

return;

}

}

System.out.println("Not found.");

}

static void remove() {

System.out.print("ID to remove: "); int id = scanner.nextInt();

employees.removeIf(e -> e.id == id);

}

static void search() {

System.out.print("ID to search: "); int id = scanner.nextInt();

for (Employee e : employees) {

if (e.id == id) {

System.out.println(e);

return;

}

}

System.out.println("Not found.");

}

static void display() {

if (employees.isEmpty()) System.out.println("No employees.");

else employees.forEach(System.out::println);

}

}