import java.util.Scanner;

public class RecordManagement {

private static final int MAX\_RECORDS = 100;

private final String[] names = new String[MAX\_RECORDS];

private final int[] ages = new int[MAX\_RECORDS];

private int recordCount = 0;

public void manageRecords() {

try (Scanner input = new Scanner(System.in)) {

int choice = 0;

while (choice != 4) {

System.out.println("1. Add Record");

System.out.println("2. View Record");

System.out.println("3. List Records");

System.out.println("4. Exit");

System.out.print("Enter your choice: ");

choice = input.nextInt();

switch (choice) {

case 1 -> addRecord(input);

case 2 -> viewRecord(input);

case 3 -> listRecords();

case 4 -> System.out.println("Exiting...");

default -> System.out.println("Invalid choice. Try again.");

}

} }

}

private void addRecord(Scanner input) {

if (recordCount == MAX\_RECORDS) {

System.out.println("Maximum number of records reached.");

return;

}

System.out.print("Enter name: ");

names[recordCount] = input.next();

System.out.print("Enter age: ");

ages[recordCount] = input.nextInt();

recordCount++;

}

private void viewRecord(Scanner input) {

System.out.print("Enter name to search: ");

String searchName = input.next();

boolean found = false;

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

if (names[i].equals(searchName)) {

System.out.println("Name: " + names[i] + " Age: " + ages[i]);

found = true;

break;

}

}

if (!found) {

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

}

}

private void listRecords() {

System.out.println("Records: ");

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

System.out.println("Name: " + names[i] + " Age: " + ages[i]);

}

}

public static void main(String[] args) {

RecordManagement rm = new RecordManagement();

rm.manageRecords();

}

}