import java.io.\*;

class StudentRecords{

    static BufferedReader br = new BufferedReader(new

    InputStreamReader(System.in));

    public void addRecords() throws IOException {

    // Create or Modify a file for Database

    PrintWriter pw = new PrintWriter(new BufferedWriter(new FileWriter("studentRecords.txt",true)));

    String name, Student\_class;

    int roll\_no, grnumber;

    String s;

    boolean addMore = false;

    // Read Data

    do

    {

    System.out.print("\nEnter name: ");

    name = br.readLine();

    System.out.print("Class ");

    Student\_class = br.readLine();

    System.out.print("Roll number: ");

    roll\_no= Integer.parseInt(br.readLine());

    System.out.print("Grade number: ");

    grnumber= Integer.parseInt(br.readLine());

    // Print to File

    pw.println(name);

    pw.println(Student\_class);

    pw.println(roll\_no);

    pw.println(grnumber);

    System.out.print("\nRecords added successfully !\n\nDo you want to add more records ? (y/n) : ");

    s = br.readLine();

    if(s.equalsIgnoreCase("y"))

    {

    addMore = true;

    System.out.println();

    }

    else

    addMore = false;

    }

    while(addMore);

    pw.close();

    showMenu();

    }

    public void readRecords() throws IOException

    {

    try

    {

    // Open the file

    BufferedReader file = new BufferedReader(new

    FileReader("studentRecords.txt"));

    String name;

    int i=1;

    // Read records from the file

    while((name = file.readLine()) != null)

    {

    System.out.println("S.No. : " +(i++));

    System.out.println("-------------");

    System.out.println("\nName: " +name);

    System.out.println("Student Class : "+file.readLine());

    System.out.println("Roll number : "+file.readLine());

    System.out.println("Grade Number: "+file.readLine());

    System.out.println();

    }

    file.close();

    showMenu();

    }

    catch(FileNotFoundException e)

    {

    System.out.println("\nERROR : File not Found !!!");

    }

    }

    public void clear() throws IOException

    {

    // Create a blank file

    PrintWriter pw = new PrintWriter(new BufferedWriter(new

    FileWriter("studentRecords.txt")));

    pw.close();

    System.out.println("\nAll Records cleared successfully !");

    for(int i=0;i<999999999;i++); // Wait for some time

    showMenu();

    }

    public void showMenu() throws IOException

    {

    System.out.print("1 : Add Records\n2 : Display Records\n3 : Clear All Records\n4 : Exit\n\nYour Choice : ");

    int choice = Integer.parseInt(br.readLine());

    switch(choice)

    {

    case 1: addRecords();

    break;

    case 2: readRecords();

    break;

    case 3: clear();

    break;

    case 4: System.exit(1);

    break;

    default: System.out.println("\nInvalid Choice !");

    break;

    } }

    public static void main(String args[]) throws IOException

    {

    StudentRecords call = new StudentRecords();

    call.showMenu();

    }}