**//Name:- Piyush Shailesh Borse**

**//Roll no. :- 44**

**//Experiment no. :- 8**

**//Program**

**import java.util.Scanner;**

**import java.io.\*;**

**public class Student1 {**

**static BufferedReader br = new BufferedReader(new InputStreamReader(System.in));**

**String studentname; //name of student**

**int rollno, mob\_no; //roll number and mobile number**

**float marks;//marks**

**//method to create a new file**

**void create() {**

**try {**

**File file = new File("Student.txt");**

**//File named Student.txt is created**

**boolean x = file.createNewFile();**

**if (x) {**

**System.out.println("File has been  created successfully! ");**

**//Message of successful creation after new file is created**

**} else {**

**System.out.println("File already present");**

**//message if file already exists**

**}**

**} catch (IOException e) {**

**System.out.println("Exception Occurred:");**

**}**

**try {**

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

**int x = 1;**

**do {**

**Scanner sc = new Scanner(System.in);**

**int y;**

**//take input from user for name,roll no and mobile no.**

**System.out.print("\nEnter Student Name: ");**

**studentname = br.readLine();**

**System.out.print("Student Roll no: ");**

**rollno = Integer.parseInt(br.readLine());**

**System.out.print("Mobile Number: ");**

**mob\_no = Integer.parseInt(br.readLine());**

**System.out.print("Marks : ");**

**marks = Float.parseFloat(br.readLine());**

**//display student data**

**pw.println(studentname + "\t" + rollno + "\t" + marks + "\t" + mob\_no);**

**System.out.println("Do you want to enter more records? \n1) Yes\n2) No");**

**y = sc.nextInt();**

**if(y == 2) {**

**x = 0;**

**}**

**}while(x==1); //loop to add more records**

**pw.close();**

**}catch(IOException e) {**

**System.out.println(e);**

**}**

**}**

**void display(){**

**try {**

**// Open the file**

**BufferedReader file = new BufferedReader(new FileReader("Student.txt"));**

**String name;**

**int i = 1;**

**// Read records from the file**

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

**System.out.println(name);**

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

**}**

**file.close();**

**} catch (FileNotFoundException e) {**

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

**}catch(IOException e) {**

**System.out.println(e);**

**}**

**}**

**void search() {**

**try {**

**// Open the file**

**BufferedReader file = new BufferedReader(new FileReader("Student.txt"));**

**String name;**

**int flag = 0;**

**Scanner sc = new Scanner(System.in);**

**System.out.print("Enter an id of the student you want to search: ");**

**String searchname = sc.next();**

**// Read records from the file**

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

**String[] line = name.split("\t");**

**//System.out.println(line[0]);**

**if (searchname.equalsIgnoreCase(line[1])) {**

**System.out.println("Record found");**

**System.out.println(name);**

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

**flag = 1;**

**break;**

**}**

**}**

**if (flag == 0)**

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

**file.close();**

**} catch (FileNotFoundException e) {**

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

**}catch (IOException e) {**

**System.out.println(e);**

**}**

**}**

**void clearRecords() {**

**// Create a blank file**

**try {**

**PrintWriter pw = new PrintWriter(new BufferedWriter(new FileWriter("Student.txt")));**

**pw.close();**

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

**for (int i = 0; i < 999999999; i++);**

**}catch (IOException e) {**

**System.out.println(e);**

**}**

**}**

**void modify() {**

**try {**

**// Open the file**

**BufferedReader file1 = new BufferedReader(new FileReader("Student.txt"));**

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

**String name;**

**int flag = 0;**

**Scanner sc = new Scanner(System.in);**

**System.out.print("Enter the name of the student you want to update: ");**

**String searchname = sc.next();**

**// Read records from the file**

**while ((name = file1.readLine()) != null) {**

**String[] line = name.split("\t");**

**System.out.println(line[0]);**

**if (!searchname.equalsIgnoreCase(line[0])) {**

**pw.println(name);**

**flag = 0;**

**} else {**

**System.out.println("Record found");**

**System.out.println("Enter updated marks:");**

**String up\_mark = sc.next();**

**pw.println(line[0] + "\t" + line[1] + "\t" + up\_mark+ "\t" + line[3]);**

**flag = 1;**

**}**

**}**

**file1.close();**

**pw.close();**

**File delName = new File("Student.txt");**

**File oldName = new File("StudentDb.txt");**

**File newName = new File("Student.txt");**

**if (delName.delete())**

**System.out.println("record updated successfully");**

**else**

**System.out.println("Error");**

**if (oldName.renameTo(newName))**

**System.out.println("Renamed successfully");**

**else**

**System.out.println("Error");**

**} catch (FileNotFoundException e) {**

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

**}catch (IOException e) {**

**System.out.println(e);**

**}**

**}**

**void delete() {**

**File file = new File("Student.txt");**

**if (file.delete()) {**

**System.out.println(file.getName() + " is deleted!");**

**} else {**

**System.out.println("Delete failed: File didn't delete");**

**}**

**}**

**public static void main(String[] args) {**

**// TODO Auto-generated method stub**

**Student1 s = new Student1();**

**int x = 1;**

**int ch;**

**Scanner sc = new Scanner(System.in);**

**do {**

**System.out.println("\n\n1. Create Database" + "\n2. Display Database" + "\n3. Search Records" + "\n4. Modify Records" + "\n5. Clear Records" + "\n6. Delete file" + "\n7. Exit");**

**System.out.println("Enter Choice:: ");**

**ch = sc.nextInt();**

**switch(ch) {**

**case 1:**

**s.create();**

**break;**

**case 2:**

**s.display();**

**break;**

**case 3:**

**s.search();**

**break;**

**case 4:**

**s.modify();**

**break;**

**case 5:**

**s.clearRecords();**

**break;**

**case 6:**

**s.delete();**

**break;**

**case 7:**

**return ;**

**default:**

**System.out.println("Invalid choice!");**

**}**

**}while(x==1);}**

**}**

**/\***

**Output**

**1. Create Database**

**2. Display Database**

**3. Search Records**

**4. Modify Records**

**5. Clear Records**

**6. Delete file**

**7. Exit**

**Enter Choice::**

**1**

**File already present**

**Enter Student Name: Bruce**

**Student Roll no: 19**

**Mobile Number: 982725151**

**Marks : 100**

**Do you want to enter more records?**

**1) Yes**

**2) No**

**1**

**Enter Student Name: Jack**

**Student Roll no: 32**

**Mobile Number: 715114627**

**Marks : 89**

**Do you want to enter more records?**

**1) Yes**

**2) No**

**1**

**Enter Student Name: Zatch**

**Student Roll no: 21**

**Mobile Number: 942175341**

**Marks : 96**

**Do you want to enter more records?**

**1) Yes**

**2) No**

**1**

**Enter Student Name: Nobita**

**Student Roll no: 7**

**Mobile Number: 867186221**

**Marks : 50**

**Do you want to enter more records?**

**1) Yes**

**2) No**

**1**

**Enter Student Name: Raj**

**Student Roll no: 1**

**Mobile Number: 942517181**

**Marks : 99**

**Do you want to enter more records?**

**1) Yes**

**2) No**

**2**

**1. Create Database**

**2. Display Database**

**3. Search Records**

**4. Modify Records**

**5. Clear Records**

**6. Delete file**

**7. Exit**

**Enter Choice::**

**2**

**Bruce 19 100.0 982725151**

**Jack 32 89.0 715114627**

**Zatch 21 96.0 942175341**

**Nobita 7 50.0 867186221**

**Raj 1 99.0 942517181**

**1. Create Database**

**2. Display Database**

**3. Search Records**

**4. Modify Records**

**5. Clear Records**

**6. Delete file**

**7. Exit**

**Enter Choice::**

**3**

**Enter an id of the student you want to search: 1**

**Record found**

**Raj 1 99.0 942517181**

**1. Create Database**

**2. Display Database**

**3. Search Records**

**4. Modify Records**

**5. Clear Records**

**6. Delete file**

**7. Exit**

**Enter Choice::**

**4**

**Enter the name of the student you want to update: 7**

**Bruce**

**Jack**

**Zatch**

**Nobita**

**Raj**

**record updated successfully**

**Error**

**1. Create Database**

**2. Display Database**

**3. Search Records**

**4. Modify Records**

**5. Clear Records**

**6. Delete file**

**7. Exit**

**Enter Choice::**

**5**

**All Records cleared successfully !**

**1. Create Database**

**2. Display Database**

**3. Search Records**

**4. Modify Records**

**5. Clear Records**

**6. Delete file**

**7. Exit**

**Enter Choice::**

**6**

**Student.txt is deleted!**

**1. Create Database**

**2. Display Database**

**3. Search Records**

**4. Modify Records**

**5. Clear Records**

**6. Delete file**

**7. Exit**

**Enter Choice::**

**7**

**PS C:\Users\Dell>**

**\*/**