Name: Sujitkumar patil
Roll No.:222053
Prn. No.: 22010360
Class: SY B2

Assignment 6

Aim: Implement student database using files in JAVA and perform following operations: a. Insert, b. Delete, c. Display, d. Search

Code:

```java
import java.io.*;
class Main
{
static BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));

 public void addRecords() throws IOException
 {

 PrintWriter pw = new PrintWriter(new BufferedWriter(new
 FileWriter("studentRecords.txt",true)));
 String name, Class, fname, mname, address, dob;
 int age;
 long telephoneNo;
 String s;
 boolean addMore = false;

 do
 {
  System.out.print("\nEnter name: ");
  name = br.readLine();

  System.out.print("Father's Name: ");
  fname = br.readLine();

  System.out.print("Mother's Name: ");
  mname = br.readLine();

  System.out.print("Address: ");
  address = br.readLine();

  System.out.print("Class: ");
```

```java
        Class = br.readLine();

        System.out.print("Date of Birth (dd/mm/yy) : ");
        dob = br.readLine();

        System.out.print("Age: ");
        age = Integer.parseInt(br.readLine());

        System.out.print("Telephone No.: ");
        telephoneNo = Long.parseLong(br.readLine());

        pw.println(name);
        pw.println(fname);
        pw.println(mname);
        pw.println(address);
        pw.println(Class);
        pw.println(dob);
        pw.println(age);
        pw.println(telephoneNo);

        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
    {

        BufferedReader file = new BufferedReader(new
        FileReader("studentRecords.txt"));
        String name;
        int i=1;

        while((name = file.readLine()) != null)
        {
          System.out.println("S.No. : " +(i++));
```

```java
    System.out.println("-------------");
    System.out.println("\nName: " +name);
    System.out.println("Father's Name : "+file.readLine());
    System.out.println("Mother's Name : "+file.readLine());
    System.out.println("Address: "+file.readLine());
    System.out.println("Class: "+file.readLine());
    System.out.println("Date of Birth : "+file.readLine());
    System.out.println("Age: "+Integer.parseInt(file.readLine()));
    System.out.println("Tel. No.: "+Long.parseLong(file.readLine()));
    System.out.println();
   }
  file.close();
  showMenu();
 }
catch(FileNotFoundException e)
{
 System.out.println("\nERROR : File not Found !!!");
}
}
public void clear() throws IOException
{

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
 {
Main call = new Main();
 call.showMenu();
 }
}
```

Output:

```
1 : Add Records
2 : Display Records
3 : Clear All Records
4 : Exit

Your Choice : 1

Enter name: Sujit Patil
Father's Name: Sanjay
Mother's Name: Asha
Address: shindkheda
Class: SY-BTech
Date of Birth (dd/mm/yy) : 04/04/02
Age: 20
Telephone No.: 6598741236

Records added successfully !

Do you want to add more records ? (y/n) : n
1 : Add Records
2 : Display Records
3 : Clear All Records
4 : Exit

Your Choice : 2
S.No. : 1
-------------

Name: Sujit Patil
Father's Name : Sanjay
Mother's Name : Asha
Address: shindkheda
Class: SY-BTech
Date of Birth : 04/04/02
Age: 20
Tel. No.: 6598741236
```

Conclusion: Thus, we successfully created database in java