-:PROGRAM:-

```java
package a;

import java.util.Scanner;

import java.io.*;


public class Student
{
        static BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
        String studentname;
        int rollno, mob_no;
        float marks;


        void create() {
                try {
                        File file = new File("Student.txt");
                        boolean x = file.createNewFile();
                        if (x) {
                                System.out.println("File has been  created
successfully! ");

                        } else {
                                System.out.println("File already present");
                        }
                } catch (IOException e) {
                        System.out.println("Exception Occurred:");
```

```java
        }
    try {
            PrintWriter pw = new PrintWriter(new BufferedWriter(new FileWriter("Student.txt", true)));
            int x = 1;

            do {
                Scanner sc = new Scanner(System.in);
                int y;

                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());

                pw.println(studentname + "\t" + rollno + "\t" + marks + "\t" + mob_no);
```

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                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);
            pw.close();
        }catch(IOException e) {
            System.out.println(e);
        }

    }


    void display() {
        try {
            BufferedReader file = new BufferedReader(new FileReader("Student.txt"));
            String name;
            int i = 1;

            while ((name = file.readLine()) != null) {
                System.out.println(name);
                System.out.println("");
            }
```

```java
                    file.close();

            } catch (FileNotFoundException e) {
                    System.out.println("\nERROR : File not Found !!!");
            }catch(IOException e) {
                    System.out.println(e);
            }
        }

        void search() {
            try {
                    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();
                    while ((name = file.readLine()) != null) {
                            String[] line = name.split("\t");

                            if (searchname.equalsIgnoreCase(line[1])) {
                                    System.out.println("Record found");
                                    System.out.println(name);
                                    System.out.println("");
                                    flag = 1;
```

```java
                        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() {
        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() {
```

```java
try {
    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();
    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();
```

```java
            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 {
```

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

                }

        }
        public static void main(String[] args) {
                Student s = new Student();


                int x = 1;

                int ch;

                String ans;


                Scanner sc = new Scanner(System.in);

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


                do {

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

                        ch = sc.nextInt();

                        switch(ch) {

                        case 1:

                                s.create();

                                //s.write();

                                break;

                        case 2:

                                s.display();

                                break;

                        case 3:
```

```java
                                s.search();
                                break;


                        case 4:
                                s.modify();
                                break;
                        case 5:
                                s.clearRecords();
                                break;
                        case 6:
                                s.delete();
                                break;
                        case 7:
                                x = 1;
                                break;
                        default:
                                System.out.println("Invalid choice!");
                        }
                        System.out.println("\nDo you want to continue?? yes or
no");
                ans = sc.next();
                        }while(ans.equals("yes"));
                }
}
```

-: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 has been  created successfully!

Enter Student Name: Aditi
Student Roll no: 37
Mobile Number: 997012975
Marks : 87
Do you want to enter more records?
1) Yes
2) No
1

Enter Student Name: Shravani
Student Roll no: 43
Mobile Number: 702020418
Marks : 90
Do you want to enter more records?
1) Yes
2) No
2

Do you want to continue?? yes or no
yes
Enter Choice::
2
Aditi    37   87.0 997012975

Shravani 43   90.0 702020418


Do you want to continue?? yes or no
yes
Enter Choice::
```

```
3
Enter an id of the student you want to search: 43
Record found
Shravani 43   90.0702020418


Do you want to continue?? yes or no
yes
Enter Choice::
4
Enter the name of the student you want to update:
Aditi
Aditi
Record found
Enter updated marks:
92
Shravani
record updated successfully
Error

Do you want to continue?? yes or no
yes
Enter Choice::
5


All Records cleared successfully !

Do you want to continue?? yes or no
yes
Enter Choice::
6
Student.txt is deleted!

Do you want to continue?? yes or no
yes
Enter Choice::
6
Delete failed: File didn't delete

Do you want to continue?? yes or no
yes
Enter Choice::
7
```

```
Do you want to continue?? yes or no
yes
Enter Choice::
8
Invalid choice!

Do you want to continue?? yes or no
yes
Enter Choice::
2

ERROR : File not Found !!!

Do you want to continue?? yes or no
no
```