Program 13: Database application using SQLite

Activity main.xml

```
(?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   android:layout width="match parent"
   <TextView
   <TextView
       android:textAppearance="?android:attr/textAppearanceLarge"
       android:layout alignParentStart="true" />
   <TextView
       android:textAppearance="?android:attr/textAppearanceLarge"
       android:text="Marks"
       android:layout alignParentLeft="true"
   <EditText
   <EditText
   <EditText
```

```
android: layout width="wrap content
       android:layout height="wrap content"
       android:layout marginTop="76dp" />
       android:layout width="wrap content"
       android:layout alignStart="@+id/button viewAll" />
   <TextView
       android:layout width="wrap content"
       android:textAppearance="?android:attr/textAppearanceLarge"
       android:layout alignParentLeft="true"
   <EditText
</RelativeLayout>
```

Mainactivity.java

```
package com.example.pgm13;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.database.Cursor;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
```

```
import android.widget.EditText;
   protected void onCreate(Bundle savedInstanceState) {
       UpdateData();
       DeleteData();
myDb.deleteData(editTextId.getText().toString());
   public void UpdateData() {
nyDb.updateData(editTextId.getText().toString(), editName.getText().toString(),
editSurname.getText().toString(),editMarks.getText().toString());
                            Toast.makeText(MainActivity.this,"Data
Jpdated", Toast.LENGTH LONG) .show();
```

```
public void AddData() {
                        boolean isInserted =
myDb.insertData(editName.getText().toString(), editSurname.getText().toString(),
Inserted", Toast.LENGTH LONG).show();
                        Cursor res = myDb.getAllData();
                        while (res.moveToNext()) {
                            buffer.append("Id :"+
                            buffer.append("Name :"+
                                    res.getString(1)+"\n");
                            buffer.append("Surname :"+
                                    res.getString(2)+"\n");
                            buffer.append("Marks :"+
                                    res.getString(3)+"\n'");
                        showMessage("Data", buffer.toString());
   public void showMessage(String title, String Message) {
       builder.setCancelable(true);
       builder.setTitle(title);
```

Databasehelper.java

```
package com.example.pgm13;
import android.database.sqlite.SQLiteOpenHelper;
   public static final String TABLE NAME = "student table";
   public DatabaseHelper(Context context) {
   public void onCreate(SQLiteDatabase db) {
   public void onUpgrade (SQLiteDatabase db, int oldVersion, int
       db.execSQL("DROP TABLE IF EXISTS "+TABLE NAME);
       onCreate(db);
   public boolean insertData(String name, String surname, String marks) {
       SQLiteDatabase db = this.getWritableDatabase();
```

Output



