```
Androidmanifest.xml
```

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android">
<application android:allowBackup="true"
android:icon="@android:drawable/btn_star_big_on"
android:label="@string/app_name"
android:roundIcon="?android:attr/fingerprintAuthDrawable"
android:supportsRtl="true"
android:theme="@style/AppTheme">
<activity
android:name=".MainActivity"
android:exported="true">
<intent-filter>
<action android:name="android.intent.action.MAIN" />
<category android:name="android.intent.category.LAUNCHER" />
</intent-filter> </activity>
</application> </manifest>
MainActivity.java
package com.example.exe 04;
import androidx.appcompat.app.AppCompatActivity;
import android.database.Cursor;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
EditText editTextName, editTextRollNo, editTextMarks;
Button buttonAdd, buttonUpdate, buttonDelete, buttonView;
TextView textViewResults;
DBHelper dbHelper;
@Override protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
dbHelper = new DBHelper(this);
editTextName = findViewById(R.id.editTextName);
editTextRollNo = findViewById(R.id.editTextRollNo);
editTextMarks = findViewById(R.id.editTextMarks);
buttonAdd = findViewById(R.id.buttonAdd);
buttonUpdate = findViewById(R.id.buttonUpdate);
buttonDelete = findViewById(R.id.buttonDelete);
buttonView = findViewById(R.id.buttonView);
textViewResults = findViewById(R.id.textViewResults);
buttonAdd.setOnClickListener(new View.OnClickListener() {
@Override public void onClick(View v) {
int rollNo = Integer.parseInt(editTextRollNo.getText().toString()); // Get roll number from input
String name = editTextName.getText().toString();
int marks = Integer.parseInt(editTextMarks.getText().toString());
dbHelper.insertStudent(rollNo, name, marks);
Toast.makeText(MainActivity.this, "Student Added", Toast.LENGTH_SHORT).show(); } });
buttonUpdate.setOnClickListener(new View.OnClickListener() {
@Override public void onClick(View v) {
int rollNo = Integer.parseInt(editTextRollNo.getText().toString());
String name = editTextName.getText().toString();
int marks = Integer.parseInt(editTextMarks.getText().toString());
dbHelper.updateStudent(rollNo, name, marks);
Toast.makeText(MainActivity.this, "Student Updated", Toast.LENGTH_SHORT).show(); } });
buttonDelete.setOnClickListener(new View.OnClickListener() {
@Override public void onClick(View v) {
int rollNo = Integer.parseInt(editTextRollNo.getText().toString());
```

```
dbHelper.deleteStudent(rollNo);
Toast.makeText(MainActivity.this, "Student Deleted", Toast.LENGTH_SHORT).show(); } });
buttonView.setOnClickListener(new View.OnClickListener() {
@Override public void onClick(View v) {
Cursor cursor = dbHelper.getAllStudents();
if (cursor.getCount() == 0) {
textViewResults.setText("No data found"); return; }
StringBuilder stringBuilder = new StringBuilder();
while (cursor.moveToNext()) {
stringBuilder.append("Roll No: ").append(cursor.getInt(0)).append("\n");
stringBuilder.append("Name: ").append(cursor.getString(1)).append("\n");
stringBuilder.append("Marks: ").append(cursor.getInt(2)).append("\n\n"); }
textViewResults.setText(stringBuilder.toString()); } }); } }
Activity_Main.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<EditText android:id="@+id/editTextName" android:layout_width="0dp"
android:layout_height="wrap_content" android:hint="Name"
style="@style/Widget.MaterialComponents.TextInputEditText.OutlinedBox"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
android:layout_margin="16dp" />
<EditText android:id="@+id/editTextRollNo"
android:layout width="0dp"
android:layout_height="wrap_content" android:hint="Roll No"
style="@style/Widget.MaterialComponents.TextInputEditText.OutlinedBox"
app:layout constraintEnd toEndOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout_constraintTop_toBottomOf="@id/editTextName"
android:layout_margin="16dp" />
<EditText android:id="@+id/editTextMarks"
android:layout width="0dp"
android:layout_height="wrap_content" android:hint="Marks"
style="@style/Widget.MaterialComponents.TextInputEditText.OutlinedBox"
app:layout constraintEnd toEndOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout constraintTop toBottomOf="@id/editTextRollNo"
android:layout_margin="16dp" />
<Button android:id="@+id/buttonAdd" android:layout_width="0dp"
android:layout_height="wrap_content" android:text="Add Student"
style="@style/Widget.MaterialComponents.Button"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@id/editTextMarks"
android:layout_margin="16dp" />
<Button android:id="@+id/buttonUpdate" android:layout_width="0dp"
android:layout_height="wrap_content" android:text="Update Student"
style="@style/Widget.MaterialComponents.Button"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@id/buttonAdd"
android:layout_margin="16dp" />
<Button android:id="@+id/buttonDelete"
android:layout_width="0dp" android:layout_height="wrap_content"
android:text="Delete Student"
style="@style/Widget.MaterialComponents.Button"
```

```
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@id/buttonUpdate"
android:layout_margin="16dp" />
<Button android:id="@+id/buttonView"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:text="View All"
style="@style/Widget.MaterialComponents.Button"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@id/buttonDelete"
android:layout_margin="16dp" />
<TextView android:id="@+id/textViewResults"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_margin="16dp"
android:text="Results will appear here"
android:textAppearance="?attr/textAppearanceListItem"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@id/buttonView" />
<TextView android:id="@+id/footer_text"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_margin="28dp"
android:text="BY YOGESWARAN S"
android:textSize="26sp"
android:textColor="@android:color/black"
android:fontFamily="cursive"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintBottom_toBottomOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

