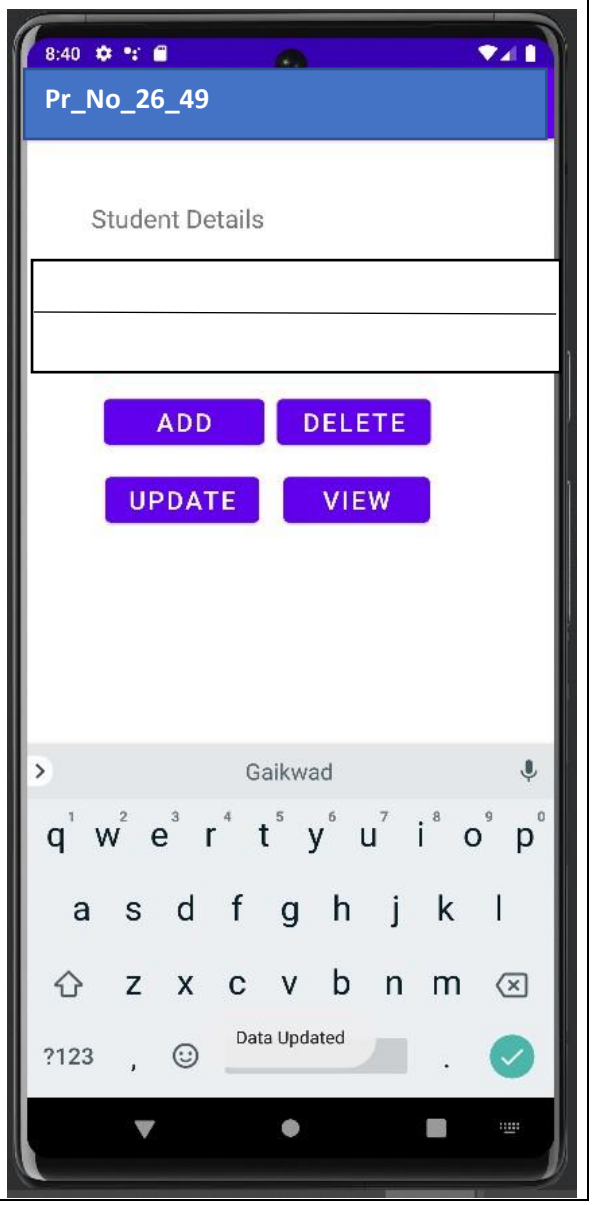
Practical No 26

1. Write a program to insert data in SQLite database using Async Task.

code for activity_main.xml location layout folder

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_marginTop="50sp"
android:layout_marginLeft="50dp">
   <TextView
      android:id="@+id/t1"
android:layout_width="266dp"
android:layout_height="wrap_content"
      android:text="Student Details"
android:textSize="20sp" />
   <EditText
android:id="@+id/Rollno"
android:layout_width="263dp"
android:layout_height="wrap_content"
android:layout_below="@+id/t1"
android:layout_marginTop="10dp"
android:hint="Enter Rollno:"
android:inputType="number"
android:textSize="20sp" />
   <EditText
android:id="@+id/Name"
android:layout_width="266dp"
android:layout_height="wrap_content"
android:layout_below="@+id/Rollno"
android:layout_marginTop="10dp"
android:hint="Enter Name"
android:inputType="text"
android:textSize="20sp" />
   <Button        android:id="@+id/Insert"
android:layout_width="125dp"
android:layout_height="wrap_content"
android:layout_below="@+id/Name"
android:layout_marginLeft="10dp"
android:layout_marginTop="10dp"
android:layout_marginRight="10dp"
android:onClick="insertData"
android:text="Add"
      android:textSize="20dp" />
   <Button
      android:id="@+id/Delete"
```



```
        android:layout_width="120dp"
    android:layout_height="wrap_content"
        android:text="Delete"
    android:textSize="20dp"
    android:onClick="deleteData"
    android:layout_marginTop="10dp"
    android:layout_below="@+id/Name"
    android:layout_toRightOf="@id/Insert" />
      <Button       android:id="@+id/Update"
    android:layout_width="120dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/Name"
    android:layout_marginLeft="-254dp"
    android:layout_marginTop="72dp"
    android:layout_toRightOf="@id/Delete"
    android:onClick="updateData"
    android:text="Update"
    android:textSize="20dp" />
      <Button       android:id="@+id/View"
    android:layout_width="114dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/Delete"
    android:layout_marginStart="19dp"
    android:layout_marginTop="14dp"
    android:layout_toEndOf="@+id/Update"
    android:onClick="viewData"
    android:text="View"
    android:textSize="20dp" />
</RelativeLayout>
```

Code for MainActivity.java location java

```
    public class MainActivity extends AppCompatActivity
    {
      EditText Rollno,Name; SQLiteDatabase db;
      @Override
      public void onCreate(Bundle savedInstanceState)
      {
        super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
        Rollno=(EditText)findViewById(R.id.Rollno);
    Name=(EditText)findViewById(R.id.Name);
    db=openOrCreateDatabase("mydb",
    Context.MODE_PRIVATE, null);
    db.execSQL("CREATE TABLE IF NOT EXISTS
    student(rollno VARCHAR,name VARCHAR);");
      }
      public void insertData(View v){
```

```
        db.execSQL("INSERT INTO student
VALUES('"+Rollno.getText()+"','"+Name.getText()+"');");
        Toast.makeText(MainActivity.this,"Data
Inserted",Toast.LENGTH_LONG).show();
    }
    public void deleteData(View v) {
db.execSQL("DELETE FROM student WHERE
rollno='"+Rollno.getText()+"'");
        Toast.makeText(MainActivity.this,"Data
Deleted",Toast.LENGTH_LONG).show();
    }
    public void updateData(View v) {
db.execSQL("UPDATE student SET name='" +
Name.getText() + "' WHERE
rollno='"+Rollno.getText()+"'");
        Toast.makeText(MainActivity.this,"Data
Updated",Toast.LENGTH_LONG).show();
    }
    public void viewData(View v) {
        Cursor c = db.rawQuery("SELECT * FROM student
WHERE rollno='" + Rollno.getText() + "'", null);
if (c.moveToFirst()) {
            Name.setText(c.getString(1));
        }
    } }
```