

- Java file

```
package com.sagar.todo;
```

```
import android.database.Cursor;
```

```
import android.database.sqlite.SQLiteDatabase;
```

```
import android.database.sqlite.SQLiteStatement;
```

```
import android.os.Bundle;
```

```
import android.widget.AdapterView;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

```
import android.widget.ListView;
```

```
import android.widget.Toast;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import androidx.core.graphics.Insets;
```

```
import androidx.core.view.ViewCompat;
```

```
import androidx.core.view.WindowInsetsCompat;
```

```
import java.util.ArrayList;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    EditText editTextTask;
```

```
    Button buttonAdd;
```

```
    ListView listViewTasks;
```

```
    ArrayList<String> taskList;
```

```
    ArrayAdapter<String> adapter;
```

```
    SQLiteDatabase db;
```

```

@Override

protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);

    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets)
-> {

        Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());

        v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom);

        return insets;

    });

    editTextTask = findViewById(R.id.editTextTask);

    buttonAdd = findViewById(R.id.buttonAdd);

    listViewTasks = findViewById(R.id.listViewTasks);

    // Initialize Database

    db = openOrCreateDatabase("TasksDB", MODE_PRIVATE, null);

    db.execSQL("CREATE TABLE IF NOT EXISTS Tasks (id INTEGER PRIMARY KEY
AUTOINCREMENT, task TEXT);");

    // Load existing tasks

    taskList = new ArrayList<>();

    loadTasks();

    adapter = new ArrayAdapter<>(this, android.R.layout.simple_list_item_1, taskList);

    listViewTasks.setAdapter(adapter);

    // Add Task Button Click

```

```

buttonAdd.setOnClickListener(v -> {

    String task = editTextTask.getText().toString().trim();

    if (!task.isEmpty()) {

        addTask(task);

        editTextTask.setText("");

    } else {

        Toast.makeText(this, "Enter a task!", Toast.LENGTH_SHORT).show();

    }

});

// Delete Task on Click

listViewTasks.setOnItemClickListener((parent, view, position, id) -> {

    deleteTask(taskList.get(position));

});

}

// Load tasks from database

private void loadTasks() {

    taskList.clear();

    Cursor cursor = db.rawQuery("SELECT task FROM Tasks", null);

    while (cursor.moveToNext()) {

        taskList.add(cursor.getString(0));

    }

    cursor.close();

}

// Add task to database

private void addTask(String task) {

```

```
String sql = "INSERT INTO Tasks (task) VALUES (?);";
SQLiteStatement statement = db.compileStatement(sql);
statement.bindString(1, task);
statement.executeUpdate();

taskList.add(task);
adapter.notifyDataSetChanged();
}

// Delete task from database
private void deleteTask(String task) {
    db.execSQL("DELETE FROM Tasks WHERE task = ?", new String[]{task});
    taskList.remove(task);
    adapter.notifyDataSetChanged();
    Toast.makeText(this, "Task deleted", Toast.LENGTH_SHORT).show();
}
}
```