



Activity – Android Studio using Java – consider the SOLID design principles.

1- Design and implement a mobile app (one interface) display students' details (name, address, stage) that is stored in an Arraylist. The app should allow admins to enter the students' detail. Use a suitable design pattern.

2- Use the Singleton design pattern to connect to the following API and fetch the data to the interface.

<https://jsonplaceholder.typicode.com/todos/>

3- Consider the following scenario:

We would like a mobile application that can turn a TV on or off. The application should have at least two classes: Switch and TV.

- Design a program that adheres to DIP.**
- Implement the previous design considering the DIP.**