**Lab List 2024**

**Mobile Application Development using Android**

1. Android App to demonstrate Basic Controls, taking user input, Event Handling, Intent and List View by generating Fibonacci series. 2024
2. Android App to demonstrate Fragments using a Simple Calculator. 2024
3. Android App to demonstrate Services using a Simple Audio Player. 2024
4. Android App to demonstrate Permissions and Broadcast Receivers using OTP and usage of Telephony to trigger an SMS. 2023
5. Android App to demonstrate Content Providers Consumption using Contacts and the usage of Themes, Menus, Contextual Menus, Action Bar and Contextual Action Bar. 2024
6. Android App to demonstrate Text to Speech, Google Speech Recognizer Intent using a Voice Notepad. 2023
7. Android App to demonstrate System Services using Date, Time Pickers and setting an Alarm, with Notification, Ringtone and Vibration. 2024
8. Android App to find the Location of the Phone using GPS. 2023
9. Android App to demonstrate Drawer View, Images, audio, video and using the Camera of the Phone 2024
10. Android App to demonstrate the usage of Internal & External Storage of the Phone. 2023
11. Android App to demonstrate the use of Shared Preferences & SQLite by performing CRUD operations. 2023 , sql roshan 2023
12. Android App to demonstrate the concept of Background Threads. 2023

Assignment

1. Android app to calculate number of coins needed for a given amount.
2. Android app to generate prime numbers.
3. Android app to convert number to string. (eg. 10 to ten, 21 to twenty one)