AADK Task 5 – Understanding State in Compose

1. Introduction

Session 5 focused on understanding how state works in modern Android UI development using Jetpack Compose. In Compose, state plays a crucial role in controlling how the user interface updates in real time. This session helped students understand how UI components automatically refresh when the underlying data changes.

2. Objective of the Session

The main objectives of this session were:

- To understand the concept of state in Compose
- To capture and manage user input
- To learn how recomposition works
- To build dynamic UI that updates instantly
- To understand how Compose manages UI data efficiently

3. Tools and Technologies Used

- Android Studio
- Kotlin
- Jetpack Compose

4. Understanding State in Compose

In Compose, state represents any value that can change over time. When the state changes, Compose automatically recomposes (rebuilds) the affected UI components.

Important functions used:

- remember
- mutableStateOf
- rememberSaveable