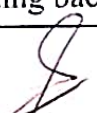


# MAD & PWA Lab

## Journal

Experiment No.	Assignment-1
Assignment 1 Questions	<p>1. a) Explain the key features and advantages of using Flutter for mobile app development.  b) Discuss how the Flutter framework differs from traditional approaches and why it has gained popularity in the developer community.</p> <p>2. a) Describe the concept of the widget tree in Flutter. Explain how widget composition is used to build complex user interfaces.  b) Provide examples of commonly used widgets and their roles in creating a widget tree.</p> <p>3. a) Discuss the importance of state management in Flutter applications.  b) Compare and contrast the different state management approaches available in Flutter, such as setState, Provider, and Riverpod. Provide scenarios where each approach is suitable.</p> <p>4. a) Firebase Integration in Flutter: Explain the process of integrating Firebase with a Flutter application.  b) Discuss the benefits of using Firebase as a backend solution. Highlight the Firebase services commonly used in Flutter development and provide a brief overview of how data synchronization is achieved.</p>
Roll No.	25
Name	Siddharth Jha
Class	D15B
Subject	MAD & PWA Lab
Lab Outcome	<p>LO1: Understand cross platform mobile application development using Flutter framework</p> <p>LO2: Design and Develop interactive Flutter App by using widgets, layouts, gestures and animation</p> <p>LO3: Analyze and Build production ready Flutter App by incorporating backend services and deploying on Android / iOS</p>
Grade:	 <span style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">OS</span>

AM 92

Date: \_\_\_\_\_  
Page: \_\_\_\_\_

A.Y: 2024-25

# MOBILE PROGRAMMING LANGUAGE

ASSIGNMENT NO. [1]

NAME : SIDDHARTH JHA

DIVISION : DISB

Roll No : [25]