# **Experiment No:03**

# Aim:To include icons, images, fonts in Flutter app

# Theory:

Including icons, images, and custom fonts in a Flutter app allows developers to enhance the visual appeal and functionality of their applications. Here's a brief overview of how to include these assets:

#### 1. Icons:

- a. Flutter provides built-in support for icons through the Icons class, which includes a wide range of Material Design icons.
- b. You can use the Icon widget to display icons in your app. Simply specify the desired icon using the Icons class, along with properties like size and color.

## 2. Images:

- a. To include images in a Flutter app, you can add image files to the assets directory within your project.
- b. Use the Image widget to display images. Specify the image asset path using the Image.asset() constructor.

#### 3. Fonts:

- a. Custom fonts can be added to a Flutter app by including font files (e.g., .ttf or .otf) in the project's fonts directory.
- b. Declare the custom fonts in the pubspec.yaml file under the flutter section using the fonts property.
- c. Once declared, you can apply the custom font to text in your app using the fontFamily property in the TextStyle widget.

### Here's a summarized step-by-step guide:

#### 1. Add Icons:

- a. Use the Icon widget with the desired icon from the Icons class.
- b. Customize the icon size and color as needed.

# 2. Add Images:

- a. Place image files in the assets directory of your Flutter project.
- b. Use the Image.asset() widget to load images from the asset bundle.
- c. Specify the image asset path as a parameter to the Image.asset() constructor.

#### 3. Add Fonts:

- a. Place custom font files in the fonts directory of your Flutter project.
- b. Declare the custom fonts in the pubspec.yaml file under the flutter section using the fonts property.
- c. Apply the custom font to text using the fontFamily property in the TextStyle widget.

### Code:

```
import 'package:flutter/material.dart';
void main() {
runApp(MyApp());
}
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return MaterialApp(
   title: 'Flutter Icons, Images, and Fonts Example',
   theme: ThemeData(
    primarySwatch: Colors.blue,
   ),
   home: MyHomePage(),
 );
}
}
class MyHomePage extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: Text('Expt-3'),
   ),
   body: Center(
    child: Column(
     mainAxisAlignment: MainAxisAlignment.center,
     children: <Widget>[
       Text(
        'Flutter-Expt:3 Nilesh',
        style:TextStyle(
         fontSize: 40,
         color: Colors.red,
       ),
       ),
       Icon(
        Icons.favorite,
        size: 50,
        color: Colors.red,
       SizedBox(height: 20),
```

```
Image.asset(
      'assets/comp.png',
      width: 100,
      height: 100,
     ),
     SizedBox(height: 20),
     Text(
      'Custom Font Example',
      style: TextStyle(
       fontFamily: 'Roboto', // Custom font family
       fontSize: 24,
       fontWeight: FontWeight.bold,
      ),
    ),
   ],
);
```

# Pubsec.yaml:

### assets:

- assets/comp.png

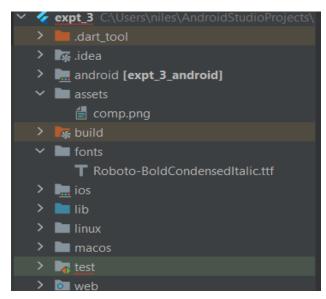
# fonts:

- family: Roboto

fonts:

- asset: fonts/Roboto-BoldCondensedItalic.ttf

### File Structure:



# **Output:**



### **Conclusion:**

I have successfully understood and implemented the images , fonts and Icons in a Flutter Application.