# **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,

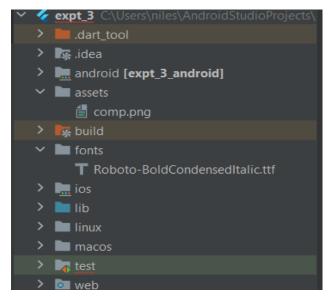
SizedBox(height: 20),

```
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
```

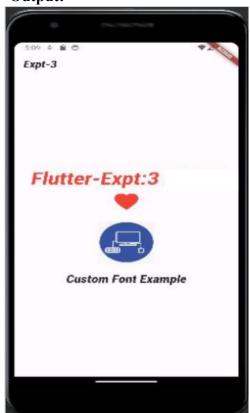
- asset: fonts/Roboto-BoldCondensedItalic.ttf

## **File Structure:**

fonts:



# **Output:**



## **Conclusion:**

I have successfully understood and implemented the images , fonts and I $\cos$  in a Flutter Application.