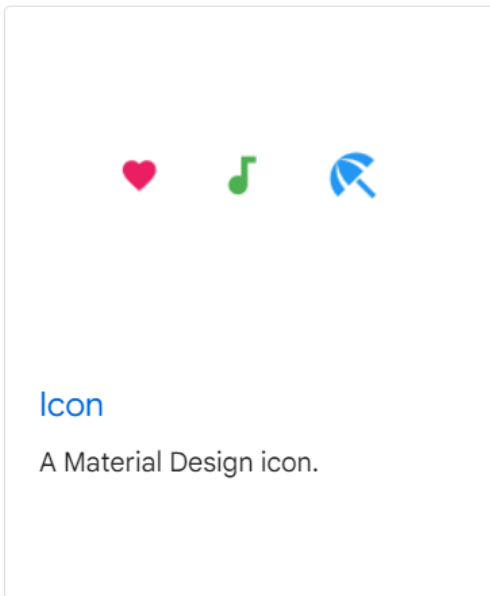# Experiment 03

Aim: To include icons, images, <u>fonts</u> in Flutter app.

Theory:

Icons:

Flutter provides support for Material icons and Cupertino icons out of the box. To use these icons, you can use the Icon widget and specify the icon you want to use by passing the appropriate icon data.

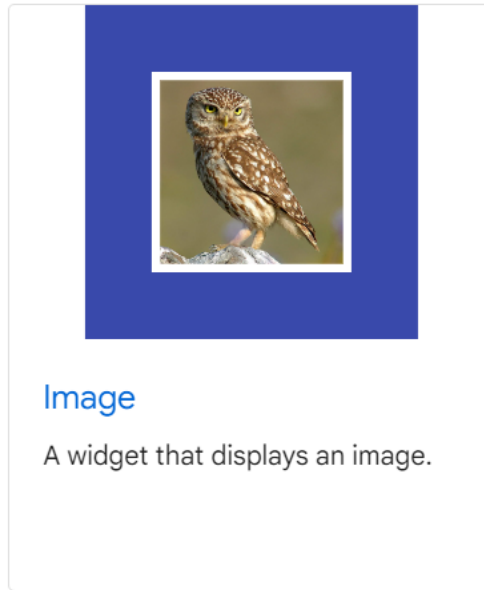**Icon(Icons.favorite); // Material icon**

Images:

You can include images in your Flutter app by placing them in the assets folder in your project directory. Then, you need to declare these assets in the pubspec.yaml file.

flutter:

  assets:

   - assets/my_image.png

Fonts:

To include custom fonts in your Flutter app, you first need to add the font files (e.g., .ttf, .otf) to your project directory. Then, declare the font files in the pubspec.yaml file.

```
flutter:
  fonts:
    - family: MyCustomFont
      fonts:
        - asset: assets/fonts/my_custom_font.ttf
```

After declaring the fonts, you can use them in your Flutter app by specifying the font family in text widgets.

```
Text(

  'Hello World',

  style: TextStyle(

    fontFamily: 'MyCustomFont',

  ),

);
```

Code:

```dart
import 'package:flutter/material.dart';

void main() {

  runApp(MyApp());

}

class MyApp extends StatelessWidget {

  @override

  Widget build(BuildContext context) {

    return MaterialApp(

      title: 'Custom Font, Image, and Icon Demo',

      theme: ThemeData(

        primarySwatch: Colors.blue,

      ),

      home: Scaffold(

        appBar: AppBar(

          title: Text('Custom Font, Image, and Icon Demo'),

        ),

        body: Center(

          child: Column(
```

```
      mainAxisAlignment: MainAxisAlignment.center,

children: [

  // Text with custom font

  Center(

    child: Text(

      'Click on the icon to Download image!',

      style: TextStyle(

        fontFamily: 'CustomFont',

        fontSize: 22.0,

        fontStyle: FontStyle.normal, // Fix this line

      ),

      textAlign: TextAlign.center, // Align text center

    ),

  ),


  SizedBox(height: 20.0),

  // Image

  Image.asset(

    'assets/custom_image.jpg',

    width: 200.0,

    height: 200.0,

  ),

  SizedBox(height: 20.0),
```

```dart
      // Built-in Icon

      Icon(

        Icons.file_download,

        size: 50.0,

        color: const Color.fromARGB(255, 58, 57, 57),

      ),

    ],

  ),

  ),

  ),

  );

 }

}
```
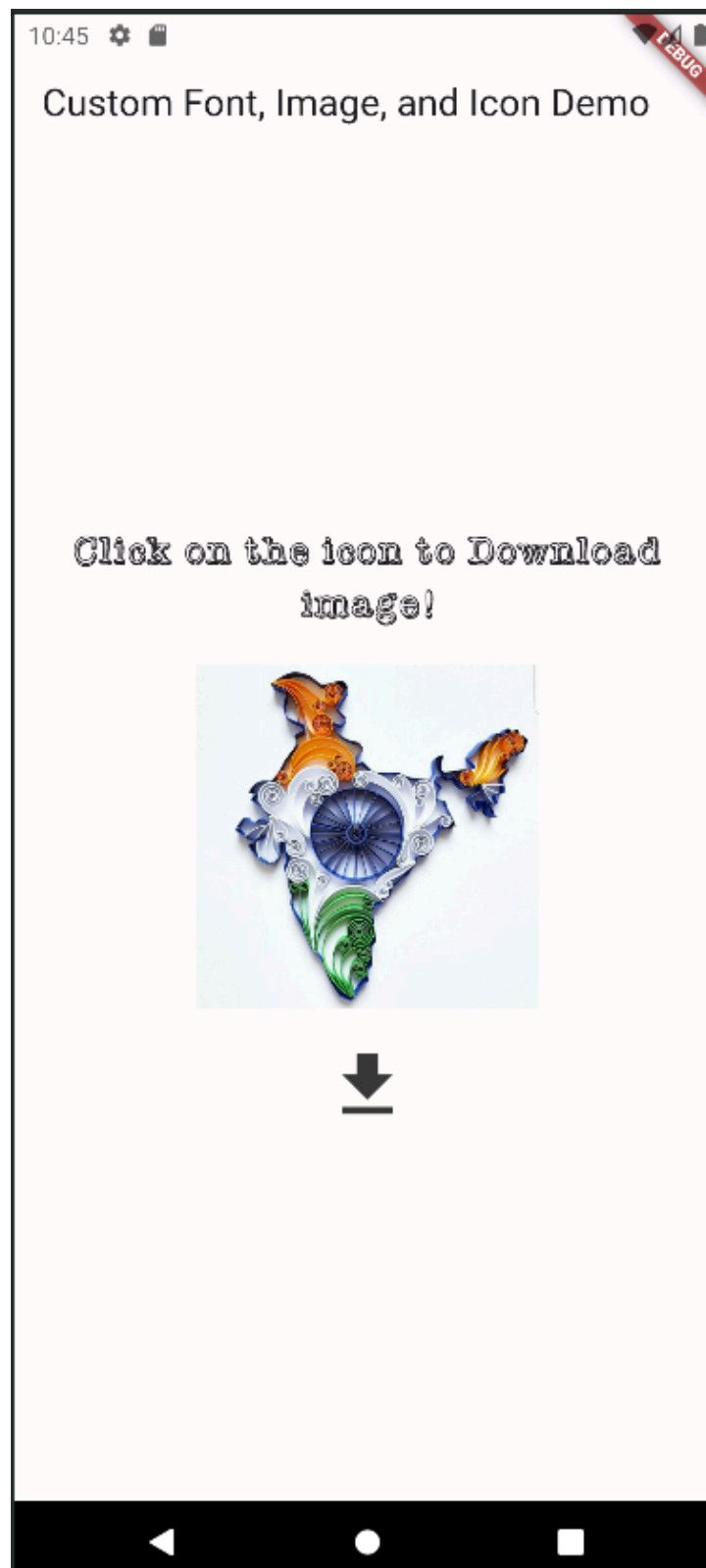
Pubsec.yaml:

```yaml
flutter:

  fonts:

  - family: CustomFont

    fonts:

      - asset: fonts/CustomFont.ttf

  assets:

  - assets/custom_image.jpg
```

Output:

Conclusion:

I learnt to implement custom font, icon and image in Flutter application.