Name :- Hertika Batra
Roll:-5
Batch:-A

Experiment:2

Aim:- to design flutter UI including common widgets

Theory:-

Flutter is Google's UI toolkit for crafting beautiful, natively compiled iOS and Android apps from a single code base. To build any application we start with widgets – The building block of flutter applications. Widgets describe what their view should look like given their current configuration and state. It includes a text widget, row widget, column widget, container widget, and many more.

Widgets: Each element on a screen of the Flutter app is a widget. The view of the screen completely depends upon the choice and sequence of the widgets used to build the apps. And the structure of the code of an apps is a tree of widgets.

Category of Widgets:

There are mainly 14 categories in which the flutter widgets are divided. They are mainly segregated on the basis of the functionality they provide in a flutter application.

1. Accessibility: These are the set of widgets that make a flutter app more easily accessible.
2. Animation and Motion: These widgets add animation to other widgets.
3. Assets, Images, and Icons: These widgets take charge of assets such as display images and show icons.
4. Async: These provide async functionality in the flutter application.
5. Basics: These are the bundle of widgets that are absolutely necessary for the development of any flutter application.
6. Cupertino: These are the iOS designed widgets.

7. Input: This set of widgets provides input functionality in a flutter application.
8. Interaction Models: These widgets are here to manage touch events and route users to different views in the application.
9. Layout: This bundle of widgets helps in placing the other widgets on the screen as needed.
10. Material Components: This is a set of widgets that mainly follow material design by Google.
11. Painting and effects: This is the set of widgets that apply visual changes to their child widgets without changing their layout or shape.
12. Scrolling: This provides scrollability of to a set of other widgets that are not scrollable by default.
13. Styling: This deals with the theme, responsiveness, and sizing of the app.
14. Text: This displays text.

Code:-

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

import 'package:driveclone/firebase.dart';

class StorageContainer extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Container(
   margin: const EdgeInsets.only(left: 15, right: 15),
   decoration: BoxDecoration(
    borderRadius: BorderRadius.circular(10),
    color: Colors.grey.shade100,
    boxShadow: [
     BoxShadow(
      color: Colors.grey.withOpacity(0.001),
```

```
      offset: const Offset(10, 10),
      blurRadius: 10,
    ),
    BoxShadow(
      color: Colors.grey.withOpacity(0.001),
      offset: const Offset(-10, 10),
      blurRadius: 10,
    ),
  ],
),
child: Padding(
  padding: const EdgeInsets.only(top: 25.0, bottom: 35),
  child: Column(
    children: [
      Container(
        width: 150,
        height: 150,
        decoration: BoxDecoration(
          shape: BoxShape.circle,
          color: Colors.white,
          boxShadow: [
            BoxShadow(color: Colors.grey.withOpacity(0.5), blurRadius: 10),
          ],
        ),
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            Row(
              mainAxisAlignment: MainAxisAlignment.center,
              children: [
```

```
        Text(
         "20",
         style: textStyle(50, const Color(0xff635C9B), FontWeight.bold),
        ),
        Text(
         "%",
         style: textStyle(17, const Color(0xff635C9B), FontWeight.bold),
        )
       ],
      ),
      Text(
       "Used",
       style: textStyle(20, Colors.black.withOpacity(0.7), FontWeight.bold),
      ),
     ],
    ),
  ),
  SizedBox(
   height: 20,
  ),
  Row(
   mainAxisAlignment: MainAxisAlignment.spaceAround,
   children: [
    Column(
     children: [
      Container(
       width: 18,
       height: 18,
       decoration: BoxDecoration(
        borderRadius: BorderRadius.circular(5),
```

```
      color: Colors.deepOrangeAccent,
     ),
    ),
    SizedBox(height: 5),
    Text(
     "Used",
     style: TextStyle(
      fontSize: 18,
      color: Colors.black.withOpacity(0.7),
      fontWeight: FontWeight.w600,
     ),
    ),
    Text(
     "45 GB",
     style: textStyle(20, const Color(0xff635C9B), FontWeight.w600),
    )
   ],
  ),
  Column(
   children: [
    Container(
     width: 18,
     height: 18,
     decoration: BoxDecoration(
      borderRadius: BorderRadius.circular(5),
      color: Colors.grey.withOpacity(0.25),
     ),
    ),
    SizedBox(height: 5),
    Text(
```

```
                "Free",
                style: TextStyle(
                  fontSize: 18,
                  color: Colors.black.withOpacity(0.7),
                  fontWeight: FontWeight.w600,
                ),
              ),
              Text(
                "100 GB",
                style: textStyle(20, const Color(0xff635C9B), FontWeight.w600),
              )
            ],
          ),
        ],
      ),
    ],
  ),
 );
}


 TextStyle textStyle(double fontSize, Color color, FontWeight fontWeight) {
  return TextStyle(
   fontSize: fontSize,
   color: color,
   fontWeight: fontWeight,
  );
 }
}
```

Output:-