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**D15B Roll No. 25**  
**MPL Experiment 3**  
**Aim : Exploring Flutter Widgets**

### **Theory :**

#### **1. Text Widget:**

- The `Text` widget in Flutter is used to display a string of text.
- It allows you to customize various text properties such as font size, color, weight, alignment, etc.
- Text can be styled using the `style` property, where you can specify a `TextStyle` object to define various text properties.
- `Text` widget is commonly used for displaying static text in your Flutter UI.

Example:

```
``dart
Text(
  'Hello, World!',
  style: TextStyle(fontSize: 20, color: Colors.blue),
)
...
```

#### **2. Button Widget:**

- Flutter provides various button widgets such as `ElevatedButton`, `TextButton`, `OutlinedButton`, etc.
- Buttons are used to trigger actions when pressed by the user.
- You can customize the appearance of buttons using properties like `onPressed` (for defining the action to be executed when the button is pressed), `style` (for styling the button), `child` (for defining the content of the button).
- Each button widget has its own specific style and behavior.

Example:

```
``dart
ElevatedButton(
  onPressed: () {
    // Action to be performed when the button is pressed
  },
  child: Text('Press Me'),
)
...
```

#### **3. Image Widget:**

- The `Image` widget in Flutter is used to display images.

- Flutter supports various image sources including network images, assets, files, etc.
- Images can be displayed using the `Image.network`, `Image.asset`, `Image.file`, etc., constructors depending on the image source.
- You can customize the image display using properties like `width`, `height`, `fit`, `alignment`, etc.

Example (Asset Image):

```
``dart
Image.asset(
  'assets/image.png',
  width: 100,
  height: 100,
  fit: BoxFit.contain,
)
``
```

Code :

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

class ProfilePage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Profile'),
      ),
      body: Stack(
        children: [
          Positioned(
            top: 0,
            left: 0,
            right: 0,
            child: Container(
              width: double.infinity,
              height: 240,
              decoration: BoxDecoration(
                color: Color(0xff368983),
                borderRadius: BorderRadius.only(
                  bottomLeft: Radius.circular(20),
                  bottomRight: Radius.circular(20),
                ),
              ),
            ),
          ),
        ],
      ),
    );
  }
}
```

```

        ),
    ),
),
Center(
  child: Column(
    mainAxisAlignment: MainAxisAlignment.center,
    children: [
      SizedBox(height: 65),
      CircleAvatar(
        radius: 50,
        backgroundImage: AssetImage('images/avatar.jpg'),
      ),
      SizedBox(height: 20),
      Text(
        'Nishtha Joshi',
        style: TextStyle(
          fontSize: 24,
          fontWeight: FontWeight.bold,
        ),
      ),
      SizedBox(height: 10),
      Text(
        'joshinishtha99@gmail.com',
        style: TextStyle(
          fontSize: 16,
          color: Colors.grey,
        ),
      ),
      SizedBox(height: 20),
      ElevatedButton(
        onPressed: () {

        },
        child: Text('Edit Profile'),
      ),
    ],
  ),
),
1,

```

```
    },  
    );  
}  
}
```



