

6 a) Create custom widgets for specific UI elements.

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

void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: Text('Custom Widget Example'),
        ),
        body: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            // Custom text field widgets
            CustomTextField('Enter your name'),
            SizedBox(height: 20),
            CustomTextField('Enter your email'),
            SizedBox(height: 20),
            CustomTextField('Enter your roll number'),
            SizedBox(height: 20),
            // Custom button widget
            CustomButton('Press Me', () {
              print('Button pressed!');
            }),
          ],
        ),
      );
    }
  }
}

class CustomTextField extends StatelessWidget {
  final String hintText;

  CustomTextField(this.hintText); // Constructor to accept hint text

  @override
  Widget build(BuildContext context) {
    return Padding(
      padding: const EdgeInsets.all(8.0),
      child: TextField(
    
```

```
decoration: InputDecoration(  
    hintText: hintText,  
    border: OutlineInputBorder(),  
,  
,  
,  
);  
}  
  
}  
  
class CustomButton extends StatelessWidget {  
    final String text;  
    final VoidCallback onPressed;  
  
    CustomButton(this.text, this.onPressed); // Constructor for button text and callback  
  
    @override  
    Widget build(BuildContext context) {  
        return ElevatedButton(  
            onPressed: onPressed,  
            child: Text(text),  
        );  
    }  
}
```

OUTPUT:

Custom Widget Example

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519

Press Me

6 b) Apply styling using themes and custom styles.

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

```
void main() {
```

```
  runApp(MyApp());
```

```
}
```

```
class MyApp extends StatelessWidget {
```

```
  @override
```

```
  Widget build(BuildContext context) {
```

```
    return MaterialApp(
```

```
      title: 'Styling Demo',
```

```
      theme: ThemeData(
```

```
        primarySwatch: Colors.blue,
```

```
      ),
```

```
      home: StylingDemo(),
```

```
    );
```

```
}
```

```
}
```

```
class StylingDemo extends StatelessWidget {
```

```
  @override
```

```
  Widget build(BuildContext context) {
```

```
    return Scaffold(
```

```
      appBar: AppBar(
```

```
        title: Text('Styling Demo'),
```

```
      ),
```

```
body: Padding(  
    padding: const EdgeInsets.all(20.0),  
    child: Column(  
        children: [  
            Text('Headline',  
                style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold)),  
            SizedBox(height: 10),  
            Text('Body Text', style: TextStyle(fontSize: 18)),  
            SizedBox(height: 20),  
            ElevatedButton(  
                onPressed: () {},  
                child: Text('Button'),  
            ),  
            TextField(  
                decoration: InputDecoration(  
                    border: OutlineInputBorder(),  
                ),  
            ),  
        ],  
    ),  
);  
}  
}
```

Output:

