

## Exercises

- ❓ Reformat the last code to organize the widgets *horizontally* (Hint: lookup *Row*)
- ❓ Reformat the last code to change the background color of the *Scaffold* to **Red**.
- ❓ Reformat the last code to change the *AppBar* color to **Red**.
- ❓ Reformat the last code to change the start and end colors of the gradient effect (Hint: lookup *begin* and *end* in *LinearGradient*)
- ❓ Reformat the last code to create a new widget called *MyButton* that replaces the *ElevatedButton* widget in the code. However, it should accept the *text* as a parameter. Then, use the *MyButton* widget to create two buttons: *Submit* and *Cancel*.
- ❓ In Flutter, it is considered a good practice to split the classes into different **.dart** files. Thus, create a new file called *my\_app.dart* and move the *MyApp* class to it. Then, import the *my\_app.dart* file into the *main.dart* file and fix any errors.
- ❓ Write the code to generate the following snapshot
- ❓

```

main.dart:
import 'package:flutter/material.dart';
import 'my_app.dart';

void main() {
  runApp(MyApp());
}
my_app.dart
import 'package:flutter/material.dart';

class MyApp extends StatelessWidget {
  // Create text controllers for the input fields
  final TextEditingController studentIdController = TextEditingController();
  final TextEditingController ageController = TextEditingController();

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: const Text(
            'First App',
            style: TextStyle(color: Colors.white),
          ),
          backgroundColor: Colors.red,
        ),
        backgroundColor: Colors.red,
        body: Padding(
          padding: const EdgeInsets.all(16.0),
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: [
              _buildField('Student ID', Colors.black, studentIdController),
              SizedBox(height: 16),
              _buildField('Your Age', Colors.black, ageController),
              SizedBox(height: 16),
              Row(
                mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                children: [
                  MyButton(
                    text: 'Submit',
                    buttonColor: Colors.red,
                    onPressed: () {
                      // Get the input values from the text controllers
                      String studentId = studentIdController.text;
                      String age = ageController.text;
                      // Print the input values
                      print('Student ID: $studentId');
                      print('Age: $age');
                    },

```

```

    ),
    MyButton(
      text: 'Cancel',
      buttonColor: Colors.grey,
      onPressed: () {
        // Clear the text fields
        studentIdController.clear();
        ageController.clear();
      },
    ),
  ],
),
],
),
),
);
}

```

```

Widget _buildField(
  String label, Color textColor, TextEditingController controller) {
  return TextField(
    controller: controller,
    style: TextStyle(color: textColor),
    decoration: InputDecoration(
      labelText: label,
      labelStyle: TextStyle(color: textColor),
      enabledBorder: OutlineInputBorder(
        borderSide: BorderSide(color: textColor),
      ),
      focusedBorder: OutlineInputBorder(
        borderSide: BorderSide(color: textColor),
      ),
    ),
  );
}

```

```

class MyButton extends StatelessWidget {
  final String text;
  final Color buttonColor;
  final VoidCallback onPressed;

  const MyButton(
    {required this.text, required this.buttonColor, required this.onPressed});

  @override
  Widget build(BuildContext context) {
    return ElevatedButton(
      onPressed: onPressed,
      style: ElevatedButton.styleFrom(

```

```

        primary: buttonColor,
      ),
      child: Text(
        text,
        style: TextStyle(
          color: Colors.white,
        ),
      ),
    );
  }
}

```

