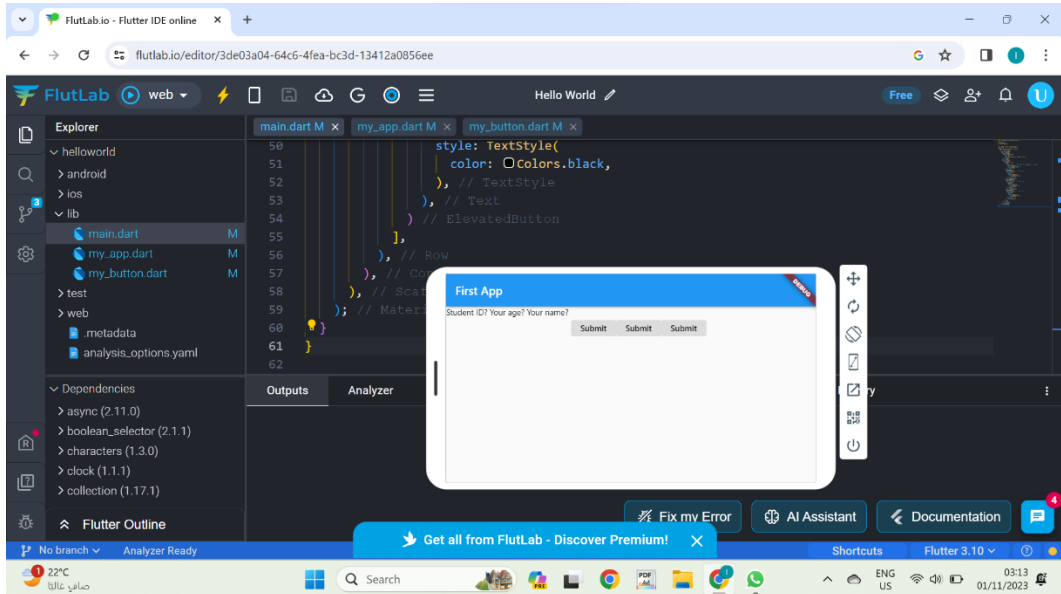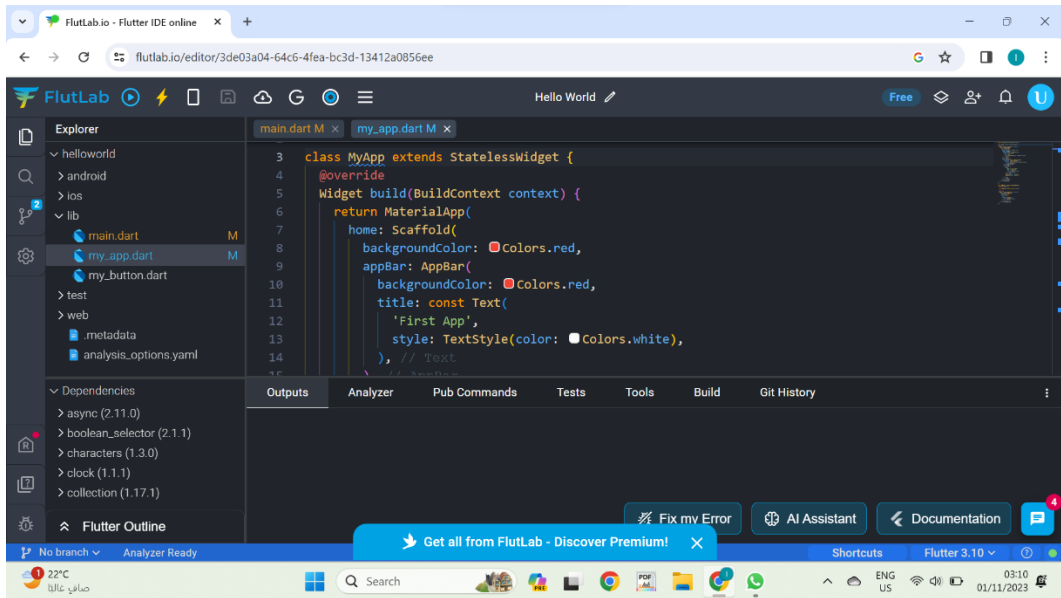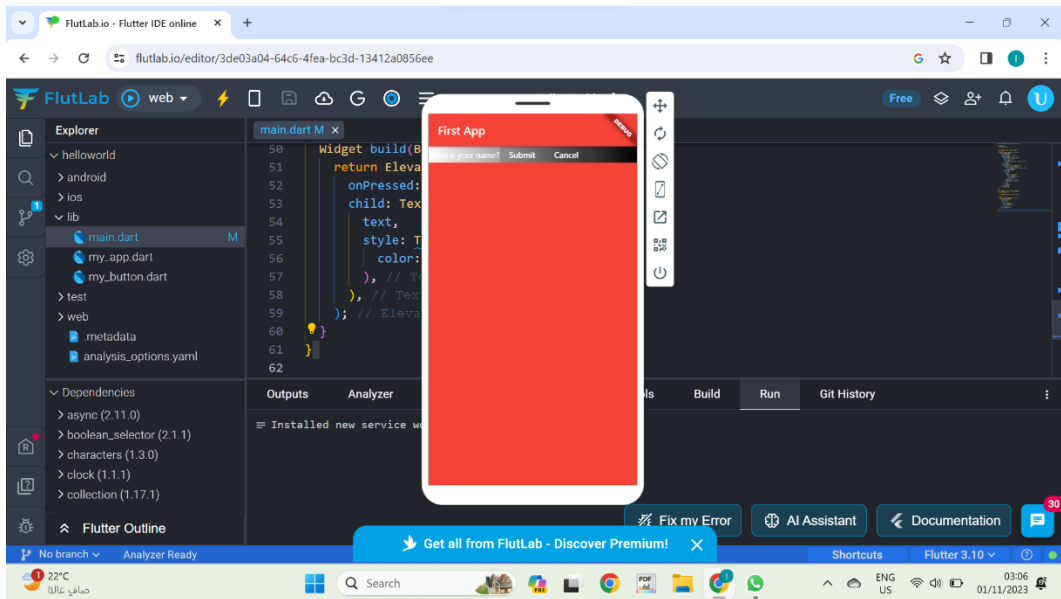Exercises

- 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

Screenshot 1 — FlutLab.io - Flutter IDE online

flutlab.io/editor/3de03a04-64c6-4fea-bc3d-13412a0856ee

FlutLab — web — Free

Explorer — main.dart M

- helloworld
  - android
  - ios
  - lib
    - main.dart M
    - my_app.dart
    - my_button.dart
  - test
  - web
  - .metadata
  - analysis_options.yaml

First App

What is your name? Submit Cancel

```
50      Widget build(B
51        return Eleva
52          onPressed:
53          child: Tex
54            text,
55            style: T
56              color:
57          ), // T
58        ), // Tex
59      ); // Eleva
60    }
61  }
62
```

Dependencies
- async (2.11.0)
- boolean_selector (2.1.1)
- characters (1.3.0)
- clock (1.1.1)
- collection (1.17.1)

Flutter Outline

Outputs   Analyzer ... Build   Run   Git History

Installed new service w

No branch   Analyzer Ready

Fix my Error   AI Assistant   Documentation

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Screenshot 2 — FlutLab.io - Flutter IDE online

flutlab.io/editor/3de03a04-64c6-4fea-bc3d-13412a0856ee

FlutLab — Hello World — Free

Explorer — main.dart M   my_app.dart M

- helloworld
  - android
  - ios
  - lib
    - main.dart M
    - my_app.dart M
    - my_button.dart
  - test
  - web
  - .metadata
  - analysis_options.yaml

```
3   class MyApp extends StatelessWidget {
4     @override
5     Widget build(BuildContext context) {
6       return MaterialApp(
7         home: Scaffold(
8           backgroundColor: Colors.red,
9           appBar: AppBar(
10            backgroundColor: Colors.red,
11            title: const Text(
12              'First App',
13              style: TextStyle(color: Colors.white),
14            ), // Text
```

Dependencies
- async (2.11.0)
- boolean_selector (2.1.1)
- characters (1.3.0)
- clock (1.1.1)
- collection (1.17.1)

Flutter Outline

Outputs   Analyzer   Pub Commands   Tests   Tools   Build   Git History

No branch   Analyzer Ready

Fix my Error   AI Assistant   Documentation

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Screenshot 3 — FlutLab.io - Flutter IDE online

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FlutLab — web — Free

Explorer — main.dart M   my_app.dart M   my_button.dart M

- helloworld
  - android
  - ios
  - lib
    - main.dart M
    - my_app.dart M
    - my_button.dart M
  - test
  - web
  - .metadata
  - analysis_options.yaml

```
50            style: TextStyle(
51              color: Colors.black,
52            ), // TextStyle
53          ), // Text
54        ) // ElevatedButton
55      ],
56      ), // Row
57      ), // C
58      ), // Scaf
59    ); // Mater
60    }
61  }
62
```

First App

Student ID? Your age? Your name?

Submit   Submit   Submit

Dependencies
- async (2.11.0)
- boolean_selector (2.1.1)
- characters (1.3.0)
- clock (1.1.1)
- collection (1.17.1)

Flutter Outline

Outputs   Analyzer ... ry

No branch   Analyzer Ready

Fix my Error   AI Assistant   Documentation

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // return a widget
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: const Text(
            'First App',
            style: TextStyle(color: Colors.white),
          ),
        ),
        body: Container(
          child: Row(
            children: const [
              Text(
                'Student ID? ' + 'Your age? ' + 'Your name? ' +
'\n\n\n',
                style: TextStyle(
                  color: Colors.black,
                ),
              ),
              ElevatedButton(
                onPressed: null, // Remove null
                child: Text(
                  'Submit',
                  style: TextStyle(
                    color: Colors.black,
                  ),
                ),
              ),
              ElevatedButton(
                onPressed: null, // Remove null
```

```dart
              child: Text(
                'Submit',
                style: TextStyle(
                  color: Colors.black,
                ),
              ),
            ),
          ElevatedButton(
            onPressed: null, // Remove null
            child: Text(
              'Submit',
              style: TextStyle(
                color: Colors.black,
              ),
            ),
          )
        ],
      ),
    ),
  ),
 );
 }
}
```

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        backgroundColor: Colors.red,
        appBar: AppBar(
          backgroundColor: Colors.red,
          title: const Text(
            'First App',
            style: TextStyle(color: Colors.white),
          ),
        ),
        body: Container(
          decoration: const BoxDecoration(
            gradient: LinearGradient(
              colors: [Colors.white, Colors.black],
            ),
          ),
          child: Row(
            children: [
              Text(
                'What is your name?',
                style: TextStyle(
                  color: Colors.white,
                ),
              ),
              MyButton(text: 'Submit'),
              MyButton(text: 'Cancel'),
            ],
          ),
        ),
      ),
    );
  }
}
```

```dart
class MyButton extends StatelessWidget {
  final String text;

  const MyButton({required this.text});

  @override
  Widget build(BuildContext context) {
    return ElevatedButton(
      onPressed: null,
      child: Text(
        text,
        style: TextStyle(
          color: Colors.white,
        ),
      ),
    );
  }
}
```