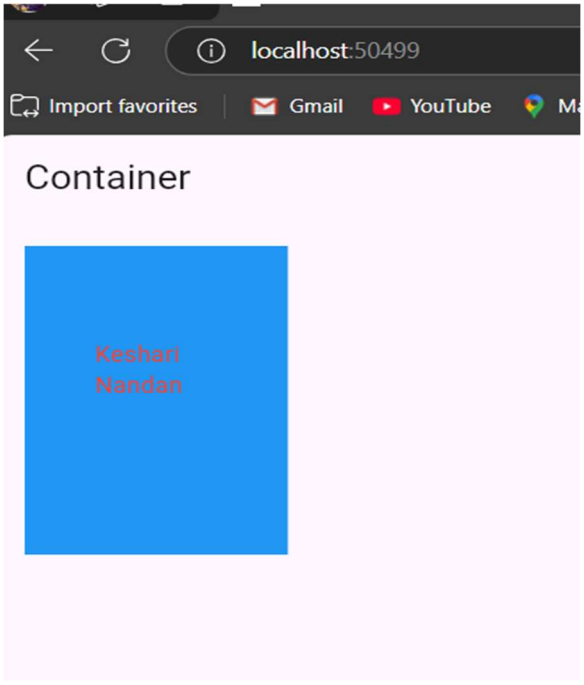
3b

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

void main() {
  runApp(MaterialApp(
    debugShowCheckedModeBanner: false,
    home: Scaffold(
      appBar: AppBar(
        title: Text("Container"),
      ),
      body: Container(
        height: 200.0,
        width: 150.0,
        margin: EdgeInsets.all(16.0),
        padding: EdgeInsets.symmetric(horizontal: 40.0, vertical: 60.0),
        color: Colors.blue,
        child: Text(
          "the Ankit Shrivastava",
          style: TextStyle(
            color: Colors.red,
            fontStyle: FontStyle.normal, // Changed null to a valid value
          ),
        ), //
      ),
    ),
  ));
}
```

Output:



Practical 4

Aim: Create and application using Flutter Key Widgets.

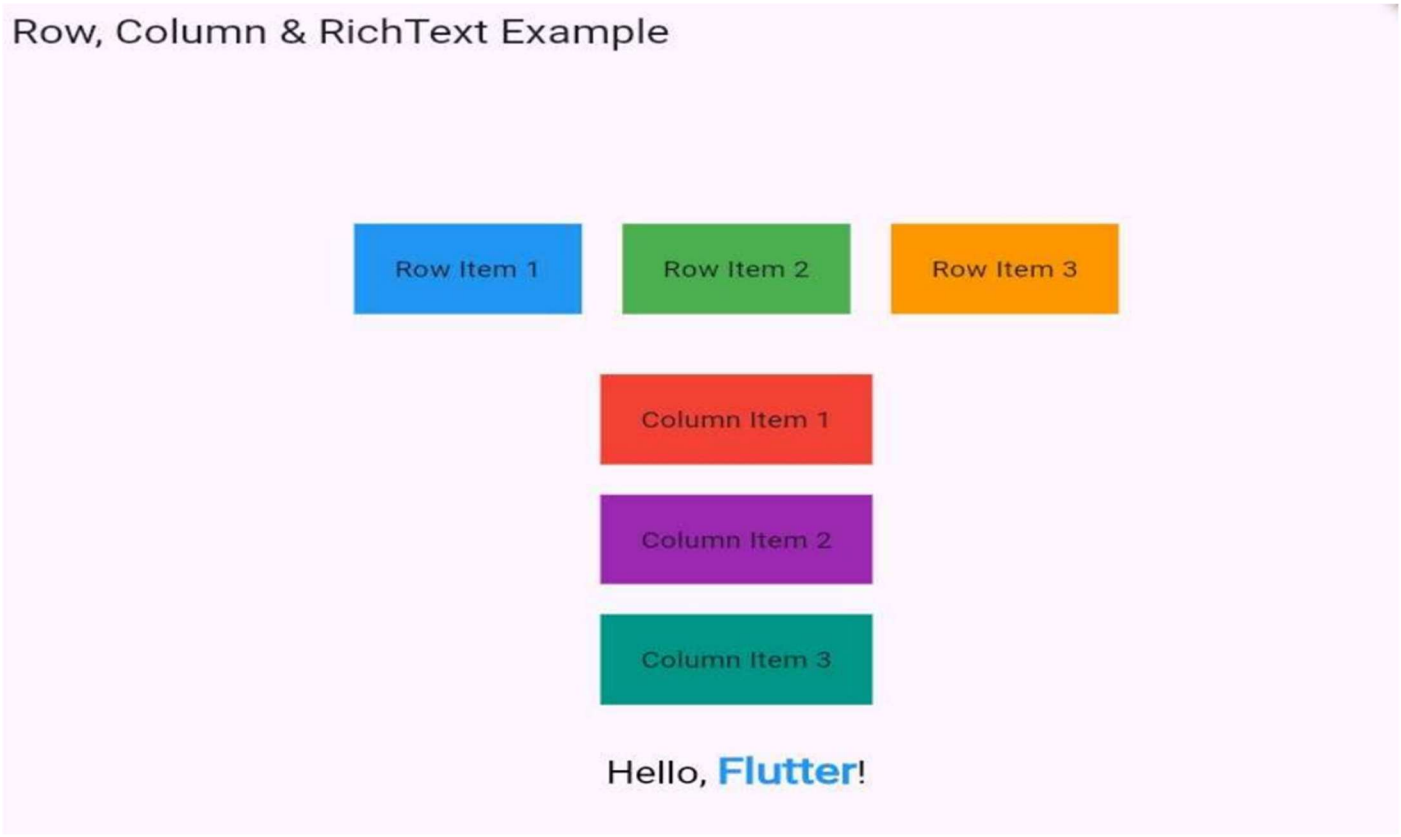
Code:

```
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('Row, Column & RichText Example'),
        ),
        body: Center(
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: <Widget>[
              // Example of a Row
              Row(
                mainAxisAlignment: MainAxisAlignment.center,
                children: <Widget>[
                  Container(
                    margin: EdgeInsets.all(10),
                    padding: EdgeInsets.all(20),
                    color: Colors.blue,
                    child: Text('Row Item 1'),
                  ),
                  Container(
                    margin: EdgeInsets.all(10),
                    padding: EdgeInsets.all(20),
                    color: Colors.green,
                    child: Text('Row Item 2'),
                  ),
                  Container(
                    margin: EdgeInsets.all(10),
                    padding: EdgeInsets.all(20),
                    color: Colors.orange,
                    child: Text('Row Item 3'),
                  ),
                ],
              ),
              SizedBox(height: 20), // Spacer

              // Example of a Column
              Column(
```

```
    mainAxisAlignment: MainAxisAlignment.center,
    children: <Widget>[
      Container(
        margin: EdgeInsets.all(10),
        padding: EdgeInsets.all(20),
        color: Colors.red,
        child: Text('Column Item 1'),
      ),
      Container(
        margin: EdgeInsets.all(10),
        padding: EdgeInsets.all(20),
        color: Colors.purple,
        child: Text('Column Item 2'),
      ),
      Container(
        margin: EdgeInsets.all(10),
        padding: EdgeInsets.all(20),
        color: Colors.teal,
        child: Text('Column Item 3'),
      ),
    ],
  ),
  SizedBox(height: 20), // Spacer

  // Example of RichText
  RichText(
    text: TextSpan(
      style: DefaultTextStyle.of(context).style,
      children: <TextSpan>[
        TextSpan(
          text: 'Hello, ',
          style: TextStyle(color: Colors.black, fontSize: 20),
        ),
        TextSpan(
          text: 'Flutter',
          style: TextStyle(
            color: Colors.blue,
            fontSize: 24,
            fontWeight: FontWeight.bold,
          ),
        ),
        TextSpan(
          text: '!',
          style: TextStyle(color: Colors.black, fontSize: 20),
        ),
      ],
    ),
  ),
```

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

Output:


Row, Column & RichText Example
Row Item 1
Row Item 2
Row Item 3
Column Item 1
Column Item 2
Column Item 3
Hello, Flutter!

Practical 5

Aim : Aim: Create and application using Flutter Key Widgets.

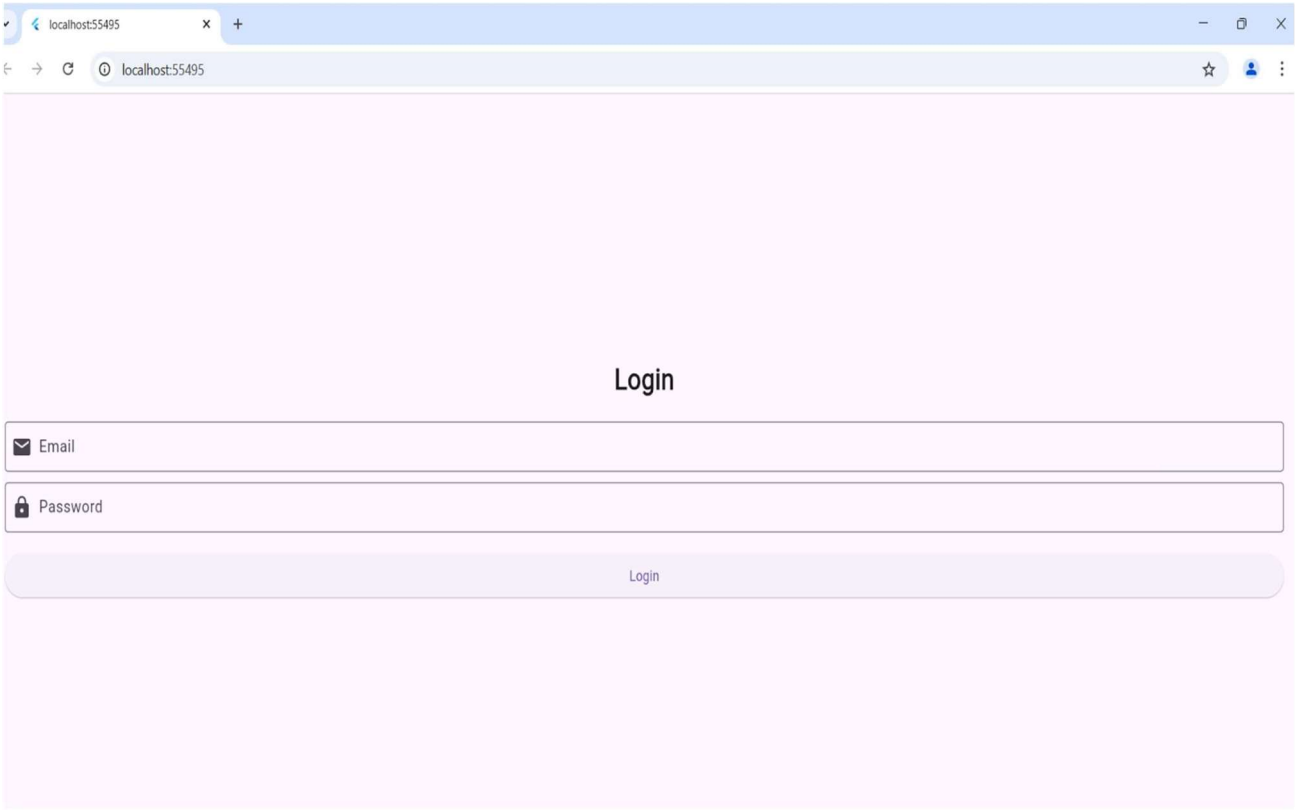
Code:

Source : Flter5.dart

```
import 'package:flutter/material.dart';
void main() {
 runApp(const MyApp());
}
class MyApp extends StatelessWidget {
 const MyApp({super.key});

 @override
 Widget build(BuildContext context) {
  return MaterialApp(
  debugShowCheckedModeBanner: false,
  home: LoginScreen(), ); }}
class LoginScreen extends StatelessWidget {
 final TextEditingController FirstNameController = TextEditingController();
 final TextEditingController LastNameController = TextEditingController();
 final TextEditingController emailController = TextEditingController();
 final TextEditingController passwordController = TextEditingController();
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   body: Center(
    child: Padding(
     padding: const EdgeInsets.all(20.0),
     child: Column(
      mainAxisSize: MainAxisSize.min,
      children: [
       const Text(
        'Login',
        style: TextStyle(fontSize: 28, fontWeight: FontWeight.bold), ),
       const SizedBox(height: 20),
       TextField(
        controller: emailController,
        decoration: InputDecoration(
        labelText: 'Email',
         border: OutlineInputBorder(),
         prefixIcon: Icon(Icons.email), ),
        keyboardType: TextInputType.emailAddress,      ),
       const SizedBox(height: 10),
       TextField(
        controller: passwordController,
        decoration: InputDecoration(
        labelText: 'Password',
         border: OutlineInputBorder(),
```

```
    prefixIcon: Icon(Icons.lock), ),
  obscureText: true, ),
const SizedBox(height: 20),
ElevatedButton(
  onPressed: () {
    String email = emailController.text;
    String password = passwordController.text;
  print('Email: $email, Password: $password');},
  child: const Text('Login'),
  style: ElevatedButton.styleFrom(
    minimumSize: Size(double.infinity, 50),
  ),  ), ], ), ),),  ); }}
```

Output:



Practical 6

Aim: Create and application with Flutter UI Components.

Code:

Source: flter6.dart

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

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

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
    debugShowCheckedModeBanner: false,
    home: LoginScreen(),
    );
  }
}

class LoginScreen extends StatelessWidget {
  final TextEditingController FirstNameController = TextEditingController();
  final TextEditingController LastNameController = TextEditingController();
  final TextEditingController emailController = TextEditingController();
  final TextEditingController passwordController = TextEditingController();

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Center(
        child: Padding(
          padding: const EdgeInsets.all(20.0),
          child: Column(
            mainAxisSize: MainAxisSize.min,
            children: [
              const Text(
                'Login',
                style: TextStyle(fontSize: 28, fontWeight: FontWeight.bold),
              ),
              const SizedBox(height: 20),
              TextField(
                controller: FirstNameController,
                decoration: InputDecoration(
                labelText: "First Name",
                  border: OutlineInputBorder(),
```

```
            prefixIcon: Icon(Icons.man)
          ),
        ),
        TextField(
          controller: LastNameController,
          decoration: InputDecoration(
            labelText: "First Name",
            border: OutlineInputBorder(),
            prefixIcon: Icon(Icons.man)
          ),
        ),
        TextField(
          controller: emailController,
          decoration: InputDecoration(
          labelText: 'Email',
            border: OutlineInputBorder(),
            prefixIcon: Icon(Icons.email),
          ),
          keyboardType: TextInputType.emailAddress,
        ),
        const SizedBox(height: 10),
        TextField(
          controller: passwordController,
          decoration: InputDecoration(
          labelText: 'Password',
            border: OutlineInputBorder(),
            prefixIcon: Icon(Icons.lock),
          ),
          obscureText: true,
        ),
        const SizedBox(height: 20),
        ElevatedButton(
          onPressed: () {
            String email = emailController.text;
            String password = passwordController.text;
            // Add login logic here
            print('Email: $email, Password: $password');
          },
          child: const Text('Login'),
          style: ElevatedButton.styleFrom(
            minimumSize: Size(double.infinity, 50),
          ),
        ),
      ],
    ),
  ),
 ),
);
```

```
    }
}
```

Output:


localhost:55495
localhost:55495
Login
First Name
First Name
Email
Password
Login