Tugas 4 Basic Layout

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Source Code:

File main.dart

```dart
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(''),
          backgroundColor: Colors.grey,
        ),
        body: Column(
          children: [
            // Baris atas dengan teks dan lingkaran
            Padding(
              padding: const EdgeInsets.all(16.0),
              child: Row(
                mainAxisAlignment: MainAxisAlignment.spaceBetween,
                children: [
                  Column(
                    crossAxisAlignment: CrossAxisAlignment.start,
                    children: [
                      Text(
                        'Welcome,',
                        style: TextStyle(
                            fontSize: 24,
                            color: const Color.fromARGB(255, 111, 20, 221)),
                      ),
                      Text(
```

```dart
                '2211104007 – Andera Singgih Pratama',
                style: TextStyle(fontSize: 20),
              ),
            ],
          ),
          // Lingkaran hitam di pojok kanan
          CircleAvatar(
            radius: 40,
            backgroundColor: Colors.green,
          ),
        ],
      ),
    ),
    SizedBox(height: 80), // Jarak antara baris atas dan kotak
    // Kotak ungu yang lebih besar
    Container(
      width: 190,
      height: 190,
      color: Colors.purple,
    ),
      ],
    ),
   ),
  );
 }
}
```

File widget_test.dart

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

import 'package:tugas_4/main.dart';

void main() {
  testWidgets('Check if welcome text is displayed',
      (WidgetTester tester) async {
    // Build our app and trigger a frame.
    await tester.pumpWidget(MyApp());

    // Verify that the welcome message is displayed.
    expect(find.text('Welcome,'), findsOneWidget);
    expect(find.text('2211104007 – Andera Singgih Pratama'), findsOneWidget);
  });

  testWidgets('Check if the green circle is displayed',
      (WidgetTester tester) async {
    // Build our app and trigger a frame.
    await tester.pumpWidget(MyApp());

    // Verify that the green circle is displayed.
    expect(find.byType(CircleAvatar), findsOneWidget);
  });

  testWidgets('Check if the purple square is displayed',
      (WidgetTester tester) async {
    // Build our app and trigger a frame.
    await tester.pumpWidget(MyApp());

    // Verify that the purple square is displayed.
    expect(
        find.byWidgetPredicate(
            (widget) => widget is Container && widget.color == Colors.purple),
        findsOneWidget);
  });
}
```

Hasil Run/Output:

Welcome,

2211104007 - Andera Singgih