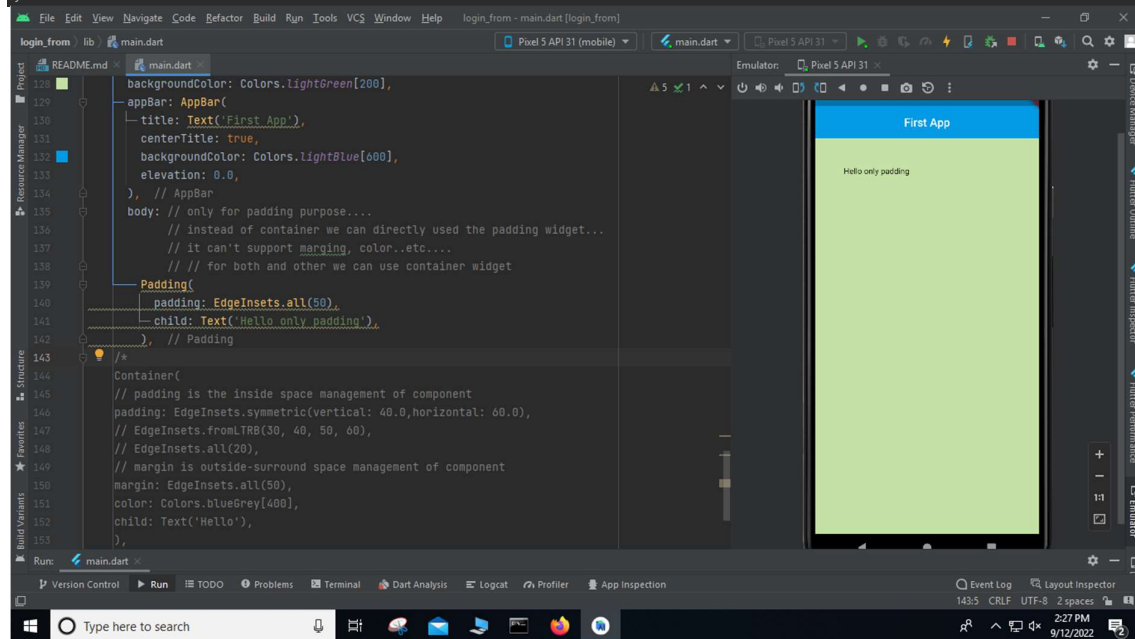# Code Test 1: padding

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

void main() => runApp(MaterialApp(
    home: FinalTest1(),
  ));

class FinalTest1 extends StatelessWidget {
// const FinalTest1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen[200],
      appBar: AppBar(
        title: Text('First App'),
        centerTitle: true,
        backgroundColor: Colors.lightBlue[600],
        elevation: 0.0,
      ),
      body: // only for padding purpose....
            // instead of container we can directly used the padding
widget...
            // it can't support marging, color..etc....
            // // for both and other we can use container widget
          Padding(
            padding: EdgeInsets.all(50),
            child: Text('Hello only padding'),
          ),

    );
  }
}
```
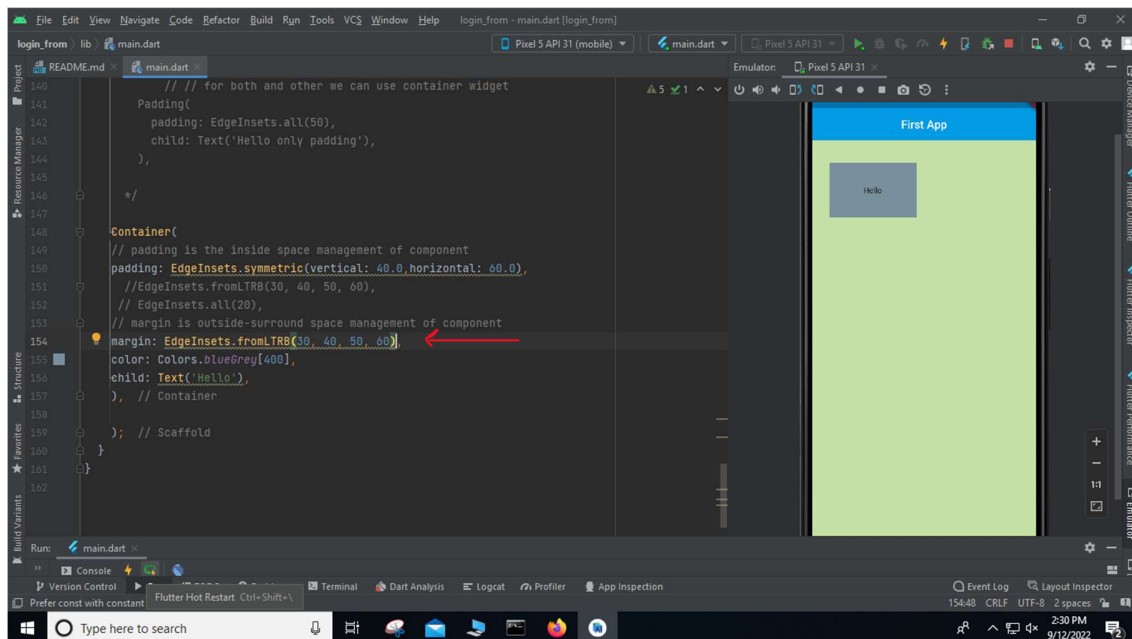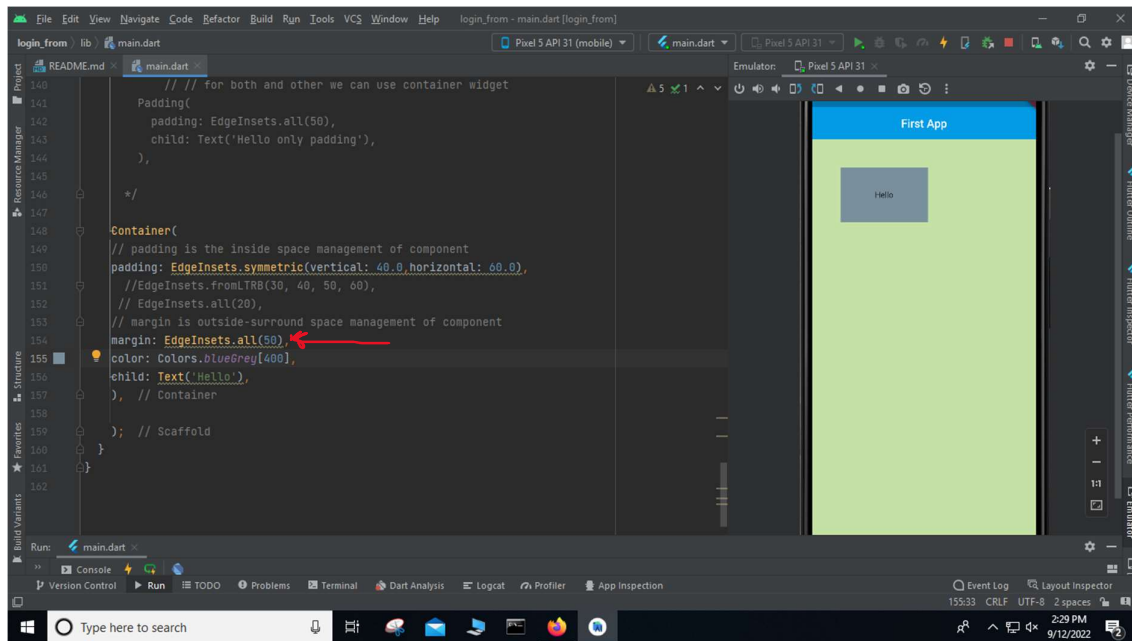
Code Test 1: Padding And Margin (Container)

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

void main() => runApp(MaterialApp(
    home: FinalTest1(),
  ));

class FinalTest1 extends StatelessWidget {
// const FinalTest1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen[200],
      appBar: AppBar(
        title: Text('First App'),
        centerTitle: true,
        backgroundColor: Colors.lightBlue[600],
        elevation: 0.0,
      ),
      body:
            // // for both margin and padding and other we can use
container widget
      Container(
        // padding is the inside space management of component
        padding: EdgeInsets.symmetric(vertical: 40.0,horizontal: 60.0),
        // EdgeInsets.fromLTRB(30, 40, 50, 60),
        // EdgeInsets.all(20),
        // margin is outside-surround space management of component
        margin: EdgeInsets.all(50),
        color: Colors.blueGrey[400],
        child: Text('Hello'),
      ),

    );
  }
}
```

```
code test: 2 Row Alignment
import 'package:flutter/material.dart';

void main() => runApp(MaterialApp(
      home: FinalTest1(),
    ));
```

```dart
class FinalTest1 extends StatelessWidget {
// const FinalTest1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen[200],
      appBar: AppBar(
        title: Text('First App'),
        centerTitle: true,
        backgroundColor: Colors.lightBlue[600],
        elevation: 0.0,
      ),
      body: Row(
        children: [
          Text('HELLO ROW'),
          FlatButton(
            onPressed: () {},
            color: Colors.purple,
            child: Text('press me'),
          ),
          Container(
            color: Colors.cyanAccent,
            padding: EdgeInsets.all(30.0),
            child: Text('inside container'),
          ),
        ],
      ),

    );
  }
}
```

code test: 2 Column Alignment
(use different mainAxisAlignment and CrossAxisAlignment)

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

void main() => runApp(MaterialApp(
      home: FinalTest1(),
    ));

class FinalTest1 extends StatelessWidget {
// const FinalTest1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen[200],
      appBar: AppBar(
        title: Text('First App'),
        centerTitle: true,
        backgroundColor: Colors.lightBlue[600],
        elevation: 0.0,
      ),
      body: Column(
        mainAxisAlignment: MainAxisAlignment.spaceAround,
        // mainAxisAlignment: MainAxisAlignment.center,
        // mainAxisAlignment: MainAxisAlignment.end,
        // mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        // mainAxisAlignment: MainAxisAlignment.spaceBetween,
        crossAxisAlignment: CrossAxisAlignment.stretch,
        // crossAxisAlignment: CrossAxisAlignment.end,
        // crossAxisAlignment: CrossAxisAlignment.start,
        // crossAxisAlignment: CrossAxisAlignment.center,
        // crossAxisAlignment: CrossAxisAlignment.baseline, // may generate
error....
        children: [
          Text('HELLO ROW'),
          FlatButton(
            onPressed: () {},
            color: Colors.purple,
            child: Text('press me'),
          ),
          Container(
            color: Colors.cyanAccent,
            padding: EdgeInsets.all(30.0),
            child: Text('inside container'),
          ),
        ],
      ),

    );
  }
}
```
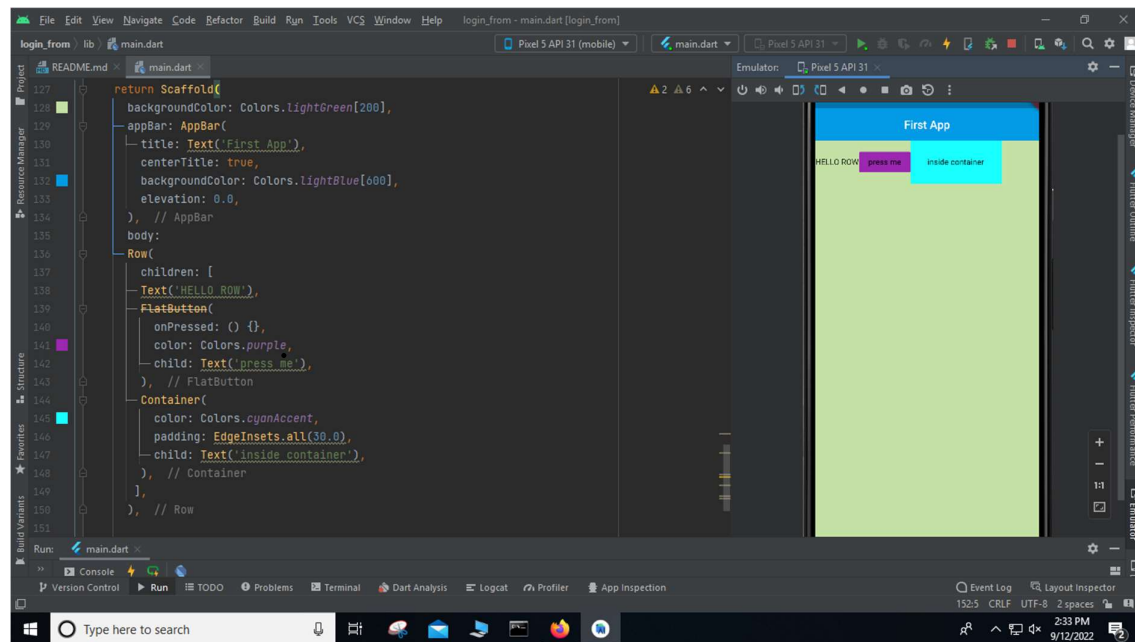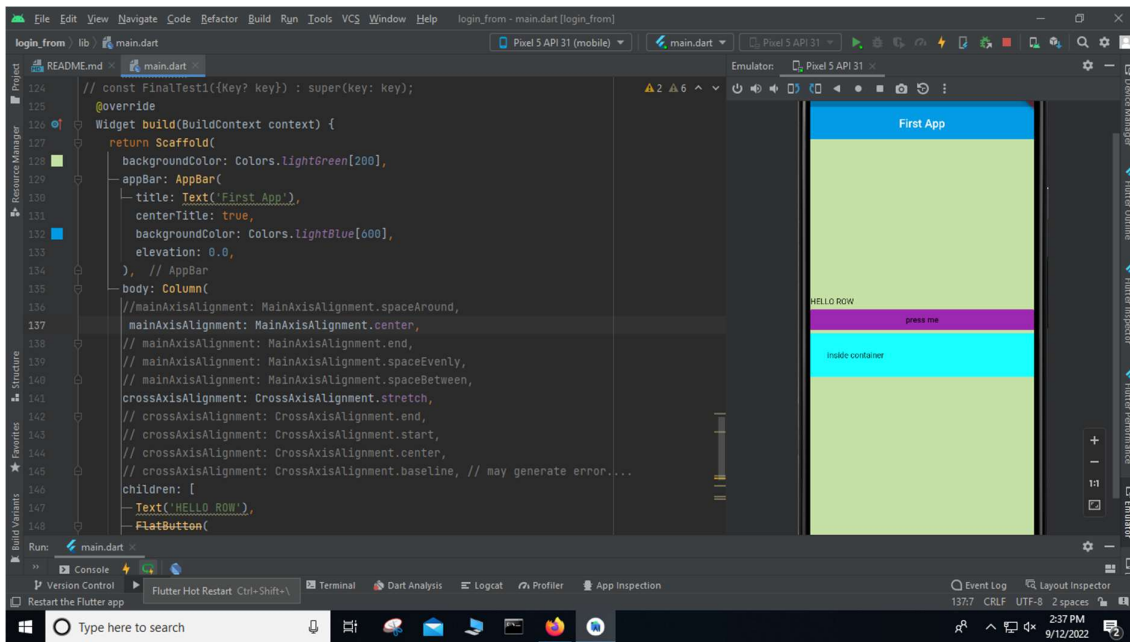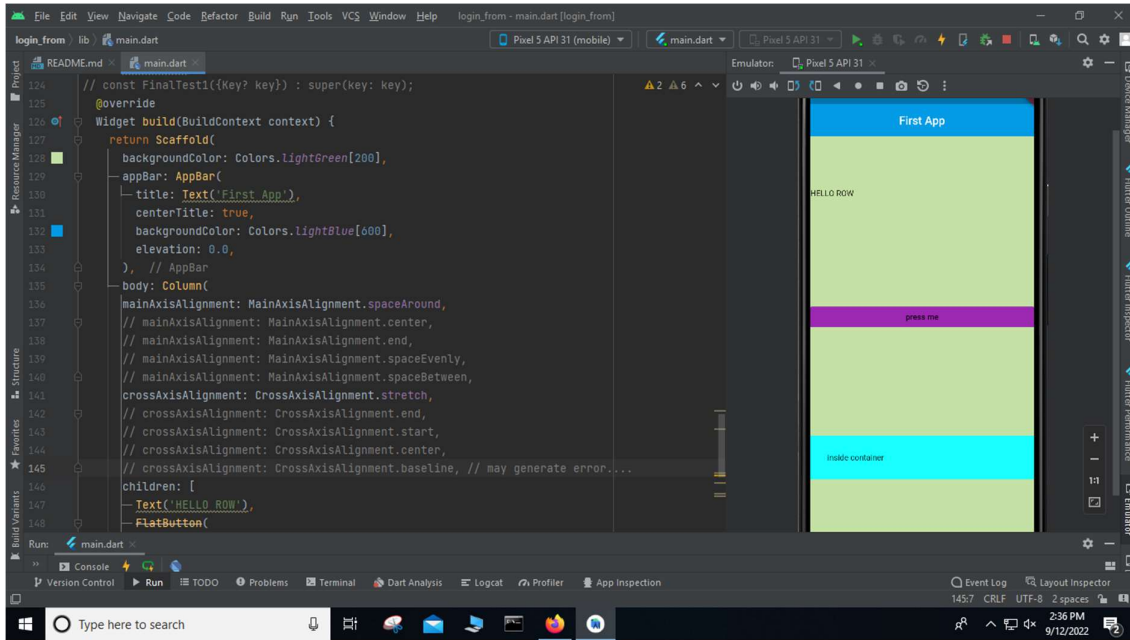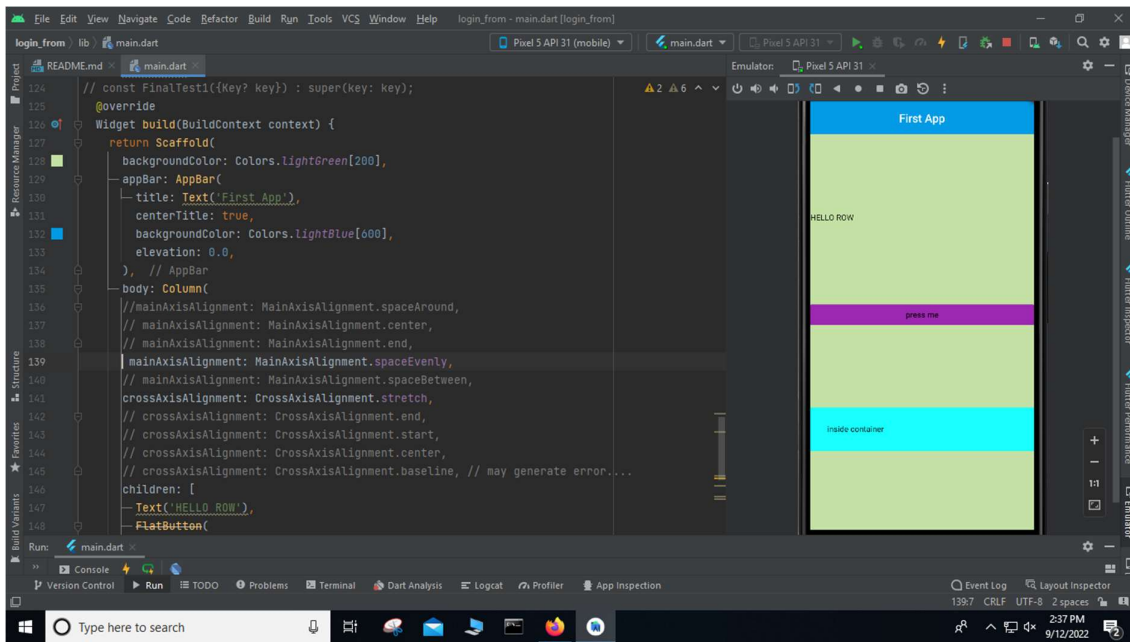
First screenshot — main.dart:

```
// const FinalTest1({Key? key}) : super(key: key);
@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.lightGreen[200],
    appBar: AppBar(
      title: Text('First App'),
      centerTitle: true,
      backgroundColor: Colors.lightBlue[600],
      elevation: 0.0,
    ), // AppBar
    body: Column(
      mainAxisAlignment: MainAxisAlignment.spaceAround,
      // mainAxisAlignment: MainAxisAlignment.center,
      // mainAxisAlignment: MainAxisAlignment.end,
      // mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      // mainAxisAlignment: MainAxisAlignment.spaceBetween,
      crossAxisAlignment: CrossAxisAlignment.stretch,
      // crossAxisAlignment: CrossAxisAlignment.end,
      // crossAxisAlignment: CrossAxisAlignment.start,
      // crossAxisAlignment: CrossAxisAlignment.center,
      // crossAxisAlignment: CrossAxisAlignment.baseline, // may generate error....
      children: [
        Text('HELLO ROW'),
        FlatButton(
```


Second screenshot — main.dart:

```
// const FinalTest1({Key? key}) : super(key: key);
@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.lightGreen[200],
    appBar: AppBar(
      title: Text('First App'),
      centerTitle: true,
      backgroundColor: Colors.lightBlue[600],
      elevation: 0.0,
    ), // AppBar
    body: Column(
      //mainAxisAlignment: MainAxisAlignment.spaceAround,
      mainAxisAlignment: MainAxisAlignment.center,
      // mainAxisAlignment: MainAxisAlignment.end,
      // mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      // mainAxisAlignment: MainAxisAlignment.spaceBetween,
      crossAxisAlignment: CrossAxisAlignment.stretch,
      // crossAxisAlignment: CrossAxisAlignment.end,
      // crossAxisAlignment: CrossAxisAlignment.start,
      // crossAxisAlignment: CrossAxisAlignment.center,
      // crossAxisAlignment: CrossAxisAlignment.baseline, // may generate error....
      children: [
        Text('HELLO ROW'),
        FlatButton(
```

First screenshot - code editor:

```
// const FinalTest1({Key? key}) : super(key: key);
@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.lightGreen[200],
    appBar: AppBar(
      title: Text('First App'),
      centerTitle: true,
      backgroundColor: Colors.lightBlue[600],
      elevation: 0.0,
    ), // AppBar
    body: Column(
      //mainAxisAlignment: MainAxisAlignment.spaceAround,
      // mainAxisAlignment: MainAxisAlignment.center,
      mainAxisAlignment: MainAxisAlignment.end,
      // mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      // mainAxisAlignment: MainAxisAlignment.spaceBetween,
      crossAxisAlignment: CrossAxisAlignment.stretch,
      // crossAxisAlignment: CrossAxisAlignment.end,
      // crossAxisAlignment: CrossAxisAlignment.start,
      // crossAxisAlignment: CrossAxisAlignment.center,
      // crossAxisAlignment: CrossAxisAlignment.baseline, // may generate error....
      children: [
        Text('HELLO ROW'),
        FlatButton(
```


Second screenshot - code editor:

```
// const FinalTest1({Key? key}) : super(key: key);
@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.lightGreen[200],
    appBar: AppBar(
      title: Text('First App'),
      centerTitle: true,
      backgroundColor: Colors.lightBlue[600],
      elevation: 0.0,
    ), // AppBar
    body: Column(
      //mainAxisAlignment: MainAxisAlignment.spaceAround,
      // mainAxisAlignment: MainAxisAlignment.center,
      // mainAxisAlignment: MainAxisAlignment.end,
      mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      // mainAxisAlignment: MainAxisAlignment.spaceBetween,
      crossAxisAlignment: CrossAxisAlignment.stretch,
      // crossAxisAlignment: CrossAxisAlignment.end,
      // crossAxisAlignment: CrossAxisAlignment.start,
      // crossAxisAlignment: CrossAxisAlignment.center,
      // crossAxisAlignment: CrossAxisAlignment.baseline, // may generate error....
      children: [
        Text('HELLO ROW'),
        FlatButton(
```

Screenshot 1 — IDE window showing main.dart code:

```
// const FinalTest1({Key? key}) : super(key: key);
@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.lightGreen[200],
    appBar: AppBar(
      title: Text('First App'),
      centerTitle: true,
      backgroundColor: Colors.lightBlue[600],
      elevation: 0.0,
    ), // AppBar
    body: Column(
//mainAxisAlignment: MainAxisAlignment.spaceAround,
// mainAxisAlignment: MainAxisAlignment.center,
// mainAxisAlignment: MainAxisAlignment.end,
// mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      mainAxisAlignment: MainAxisAlignment.spaceBetween,
crossAxisAlignment: CrossAxisAlignment.stretch,
// crossAxisAlignment: CrossAxisAlignment.end,
// crossAxisAlignment: CrossAxisAlignment.start,
// crossAxisAlignment: CrossAxisAlignment.center,
// crossAxisAlignment: CrossAxisAlignment.baseline, // may generate error....
children: [
  Text('HELLO ROW'),
  FlatButton(
```


Screenshot 2 — IDE window showing main.dart code:

```
// const FinalTest1({Key? key}) : super(key: key);
@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.lightGreen[200],
    appBar: AppBar(
      title: Text('First App'),
      centerTitle: true,
      backgroundColor: Colors.lightBlue[600],
      elevation: 0.0,
    ), // AppBar
    body: Column(
      mainAxisAlignment: MainAxisAlignment.spaceAround,
// mainAxisAlignment: MainAxisAlignment.center,
// mainAxisAlignment: MainAxisAlignment.end,
// mainAxisAlignment: MainAxisAlignment.spaceEvenly,
// mainAxisAlignment: MainAxisAlignment.spaceBetween,
//crossAxisAlignment: CrossAxisAlignment.stretch,
// crossAxisAlignment: CrossAxisAlignment.end,
  crossAxisAlignment: CrossAxisAlignment.start,
// crossAxisAlignment: CrossAxisAlignment.center,
// crossAxisAlignment: CrossAxisAlignment.baseline, // may generate error....
children: [
  Text('HELLO ROW'),
  FlatButton(
```

Row and Column Test 1 :

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

void main() => runApp(MaterialApp(
    home: FinalTest1(),
  ));
```
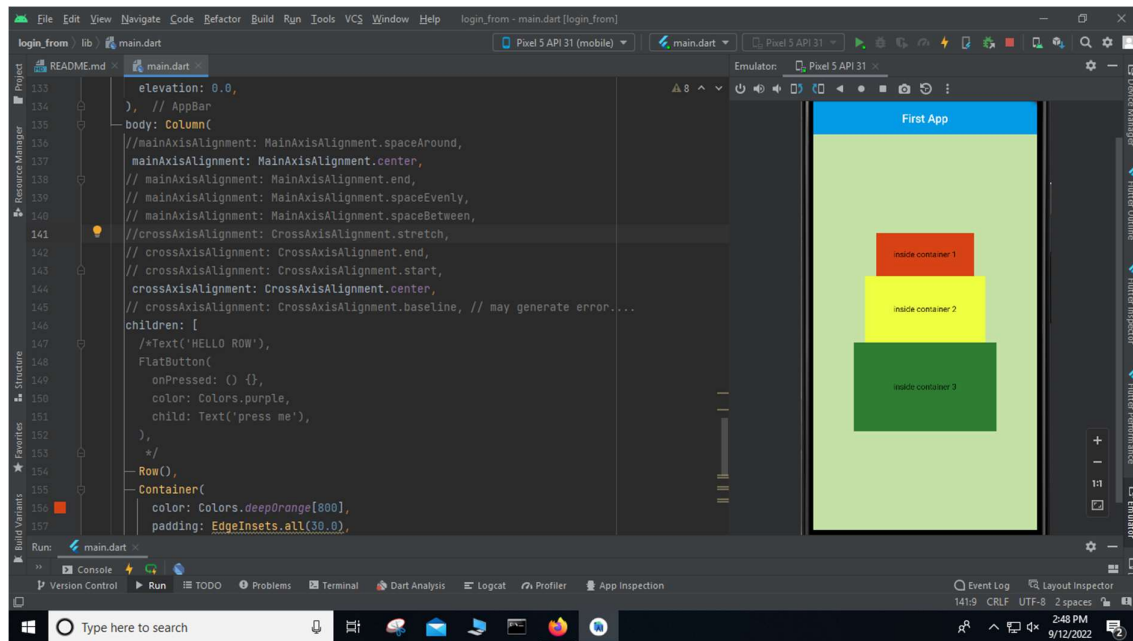
```dart
class FinalTest1 extends StatelessWidget {
// const FinalTest1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen[200],
      appBar: AppBar(
        title: Text('First App'),
        centerTitle: true,
        backgroundColor: Colors.lightBlue[600],
        elevation: 0.0,
      ),
      body: Column(
        // mainAxisAlignment: MainAxisAlignment.spaceAround,
        mainAxisAlignment: MainAxisAlignment.center,
        // mainAxisAlignment: MainAxisAlignment.end,
        // mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        // mainAxisAlignment: MainAxisAlignment.spaceBetween,
        // mainAxisAlignment: MainAxisAlignment.start,
        // crossAxisAlignment: CrossAxisAlignment.stretch,
        // crossAxisAlignment: CrossAxisAlignment.end,
        // crossAxisAlignment: CrossAxisAlignment.start,
        crossAxisAlignment: CrossAxisAlignment.center,
        // crossAxisAlignment: CrossAxisAlignment.baseline, // may generate
error....
        children: [
        Row(),
        Container(
        color: Colors.deepOrange[800],
          padding: EdgeInsets.all(30.0),
          child: Text('inside container 1'),
        ),
        Container(
          color: Colors.limeAccent,
          padding: EdgeInsets.all(50.0),
          child: Text('inside container 2'),
        ),
        Container(
          color: Colors.green[800],
          padding: EdgeInsets.all(70.0),
          child: Text('inside container 3'),

        ),
        ],
      ),

    );
  }
}
```
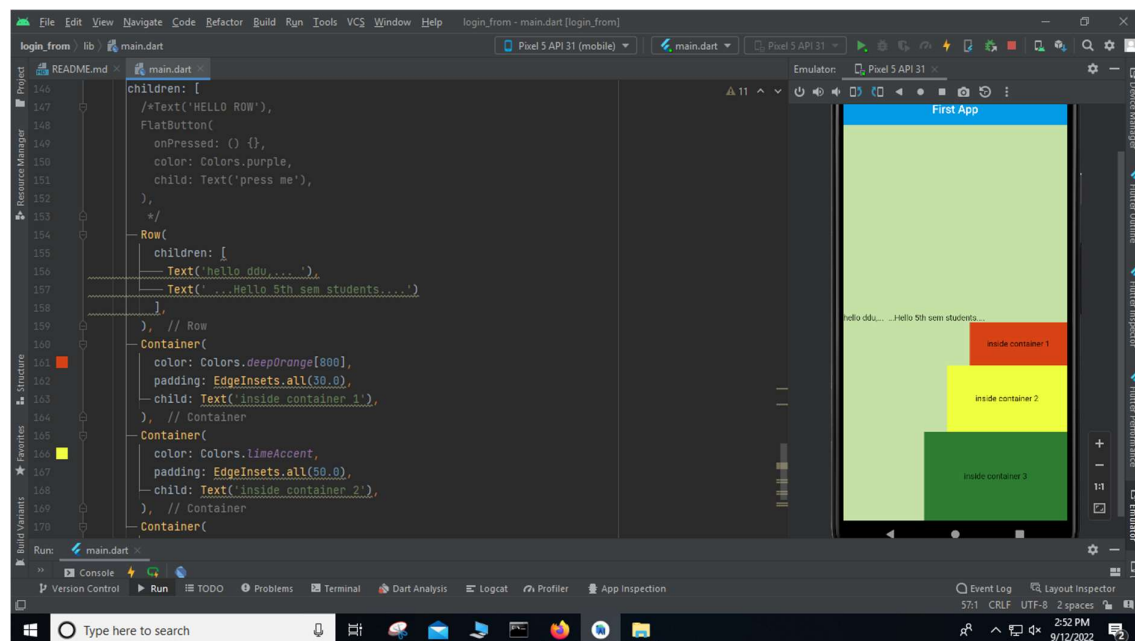
Row and Column Test 2 :

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

void main() => runApp(MaterialApp(
      home: FinalTest1(),
    ));

class FinalTest1 extends StatelessWidget {
// const FinalTest1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen[200],
      appBar: AppBar(
        title: Text('First App'),
        centerTitle: true,
        backgroundColor: Colors.lightBlue[600],
        elevation: 0.0,
      ),
      body: Column(
        // mainAxisAlignment: MainAxisAlignment.spaceAround,
        //mainAxisAlignment: MainAxisAlignment.center,
        mainAxisAlignment: MainAxisAlignment.end,
        // mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        // mainAxisAlignment: MainAxisAlignment.spaceBetween,
        // mainAxisAlignment: MainAxisAlignment.start,
        // crossAxisAlignment: CrossAxisAlignment.stretch,
        crossAxisAlignment: CrossAxisAlignment.end,
        // crossAxisAlignment: CrossAxisAlignment.start,
        //crossAxisAlignment: CrossAxisAlignment.center,
        // crossAxisAlignment: CrossAxisAlignment.baseline, // may generate
error....
        children: [
          Row(
```

```
          children: [
            Text('hello ddu,... '),
            Text(' ...Hello 5th sem students....')
          ],
        ),
      Container(
      color: Colors.deepOrange[800],
        padding: EdgeInsets.all(30.0),
        child: Text('inside container 1'),
      ),
      Container(
        color: Colors.limeAccent,
        padding: EdgeInsets.all(50.0),
        child: Text('inside container 2'),
      ),
      Container(
        color: Colors.green[800],
        padding: EdgeInsets.all(70.0),
        child: Text('inside container 3'),

      ),
      ],
    ),

    );
  }
}
```


Code test: some tips and tricks

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

void main() => runApp(MaterialApp(
```
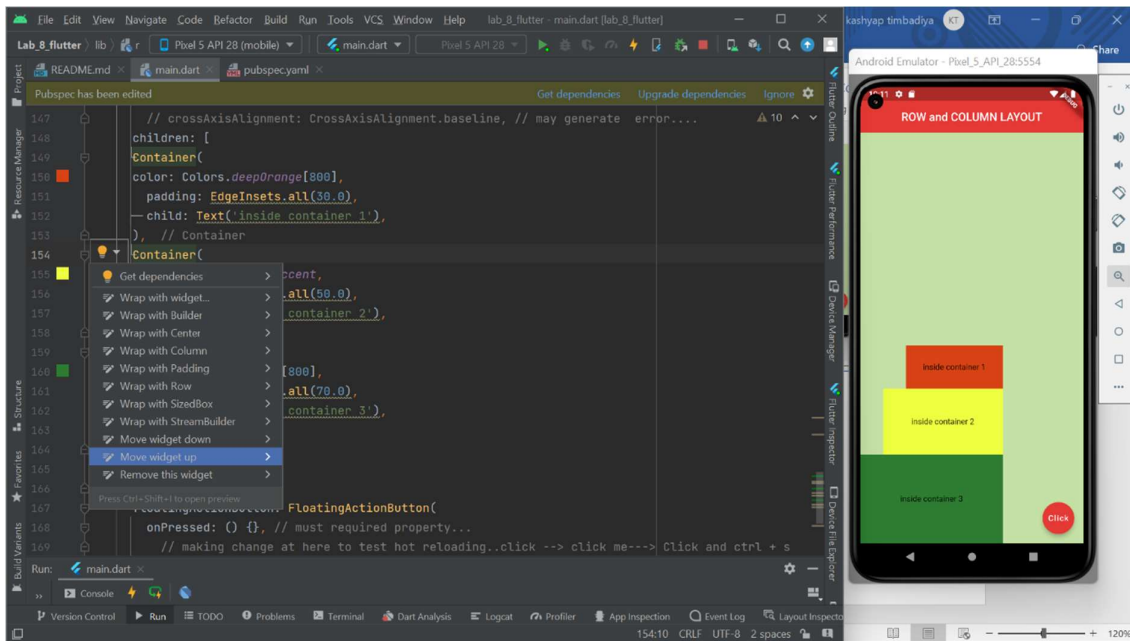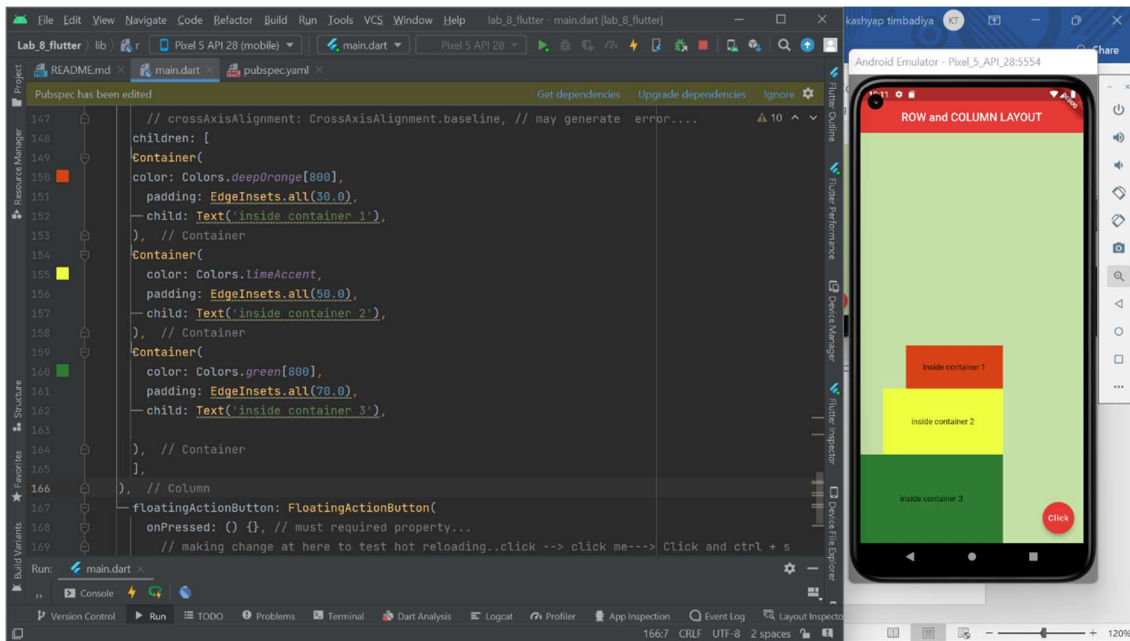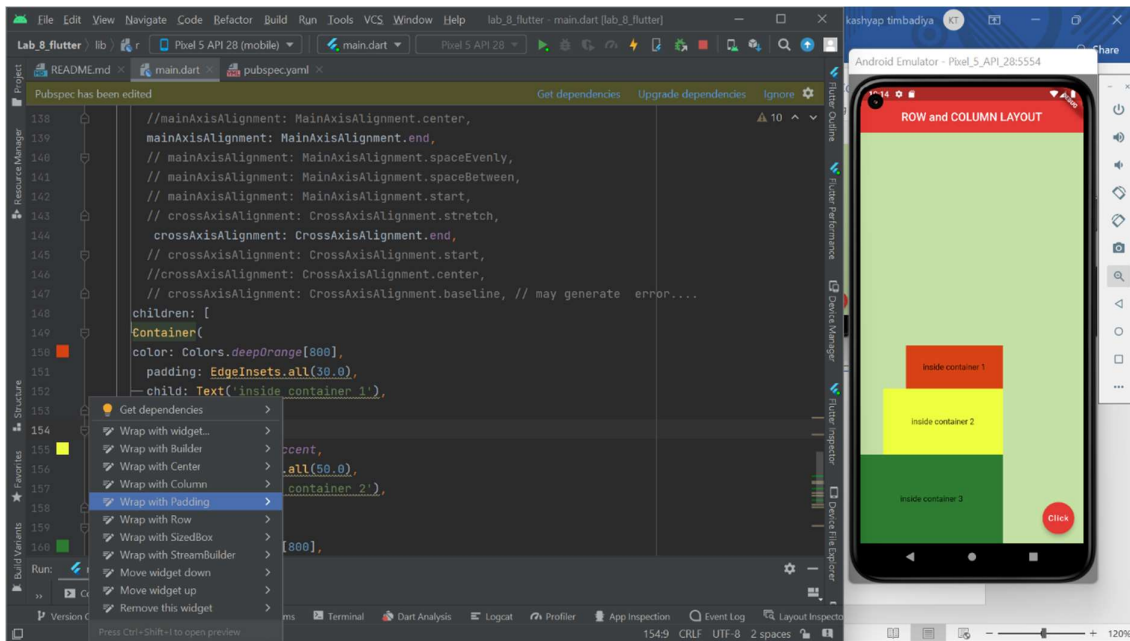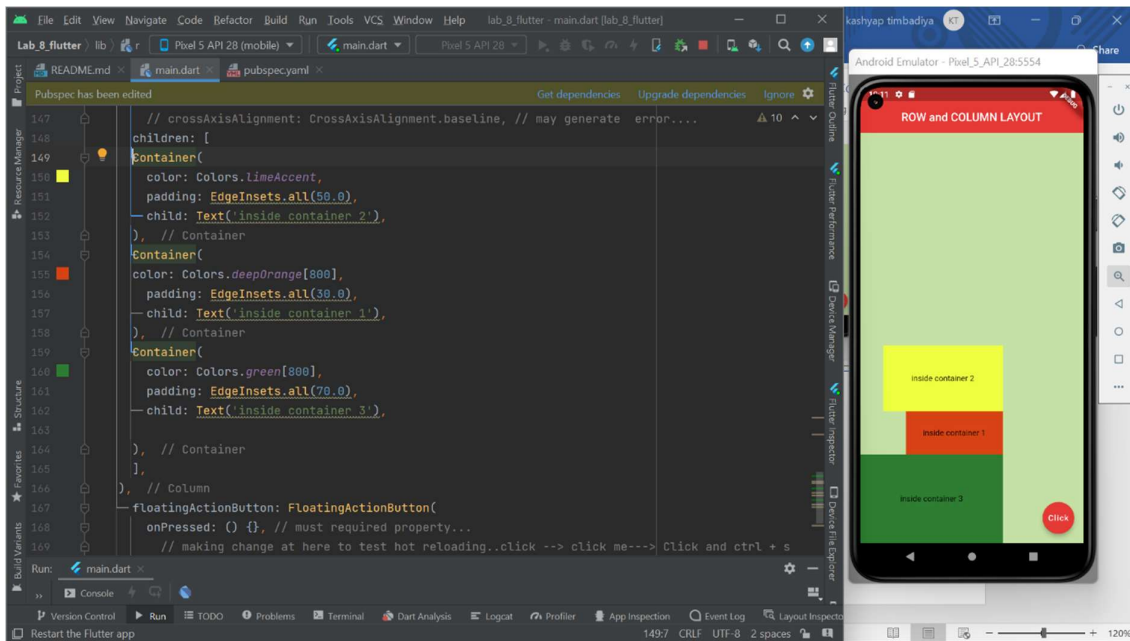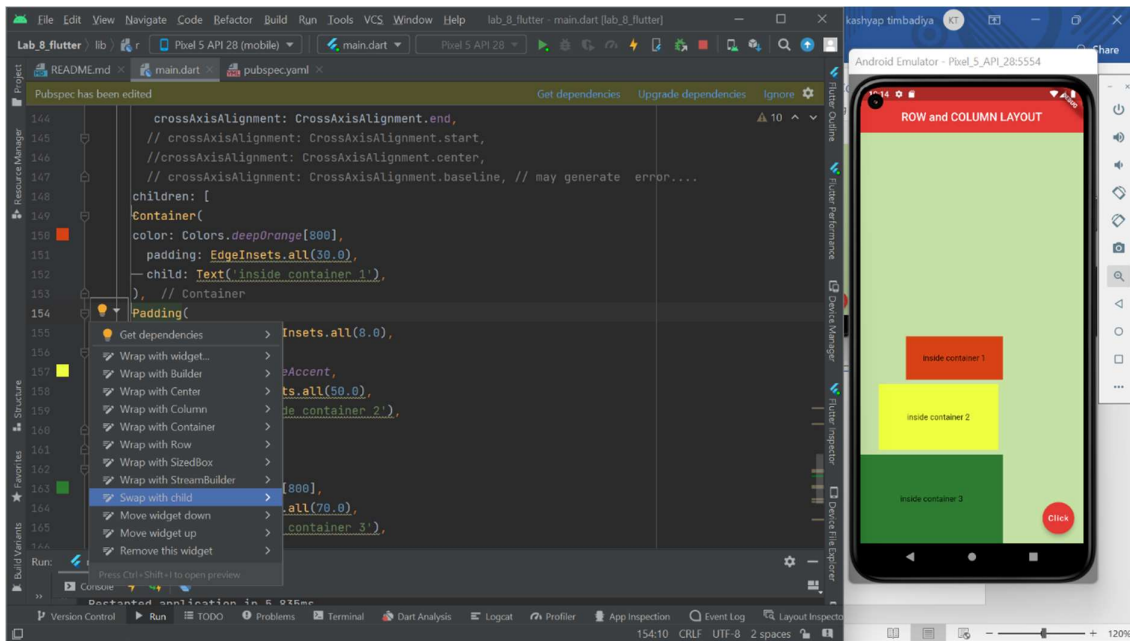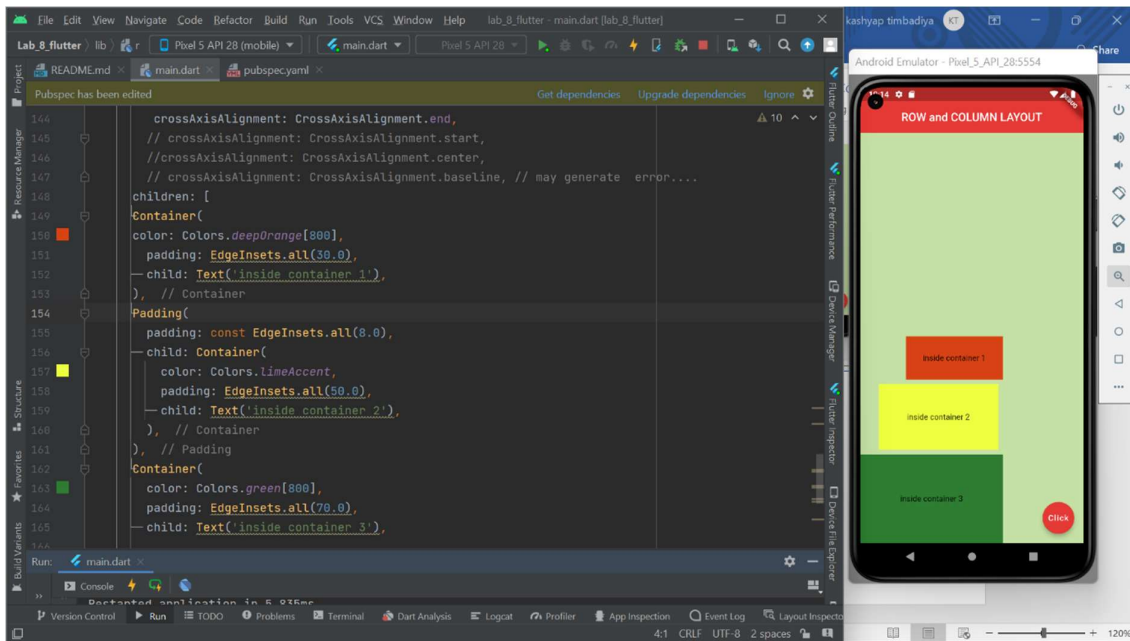
```dart
      home: FinalTest1(),
    ));
}

class FinalTest1 extends StatelessWidget {
// const FinalTest1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen[200],
      appBar: AppBar(
        title: Text('First App'),
        centerTitle: true,
        backgroundColor: Colors.lightBlue[600],
        elevation: 0.0,
      ),
      body: Column(
        // mainAxisAlignment: MainAxisAlignment.spaceAround,
        //mainAxisAlignment: MainAxisAlignment.center,
        mainAxisAlignment: MainAxisAlignment.end,
        // mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        // mainAxisAlignment: MainAxisAlignment.spaceBetween,
        // mainAxisAlignment: MainAxisAlignment.start,
        // crossAxisAlignment: CrossAxisAlignment.stretch,
         crossAxisAlignment: CrossAxisAlignment.end,
        // crossAxisAlignment: CrossAxisAlignment.start,
        //crossAxisAlignment: CrossAxisAlignment.center,
        // crossAxisAlignment: CrossAxisAlignment.baseline, // may generate
error....
      children: [
      Container(
      color: Colors.deepOrange[800],
        padding: EdgeInsets.all(30.0),
        child: Text('inside container 1'),
      ),
      Container(
        color: Colors.limeAccent,
        padding: EdgeInsets.all(50.0),
        child: Text('inside container 2'),
      ),
      Container(
        color: Colors.green[800],
        padding: EdgeInsets.all(70.0),
        child: Text('inside container 3'),

      ),
      ],
    ),
      floatingActionButton: FloatingActionButton(
        onPressed: () {}, // must required property...
          // making change at here to test hot reloading..click --> click
me---> Click and ctrl + s
        child: Text('Click'),
        backgroundColor: Colors.red[600],
      ),

    );
  }
}
```
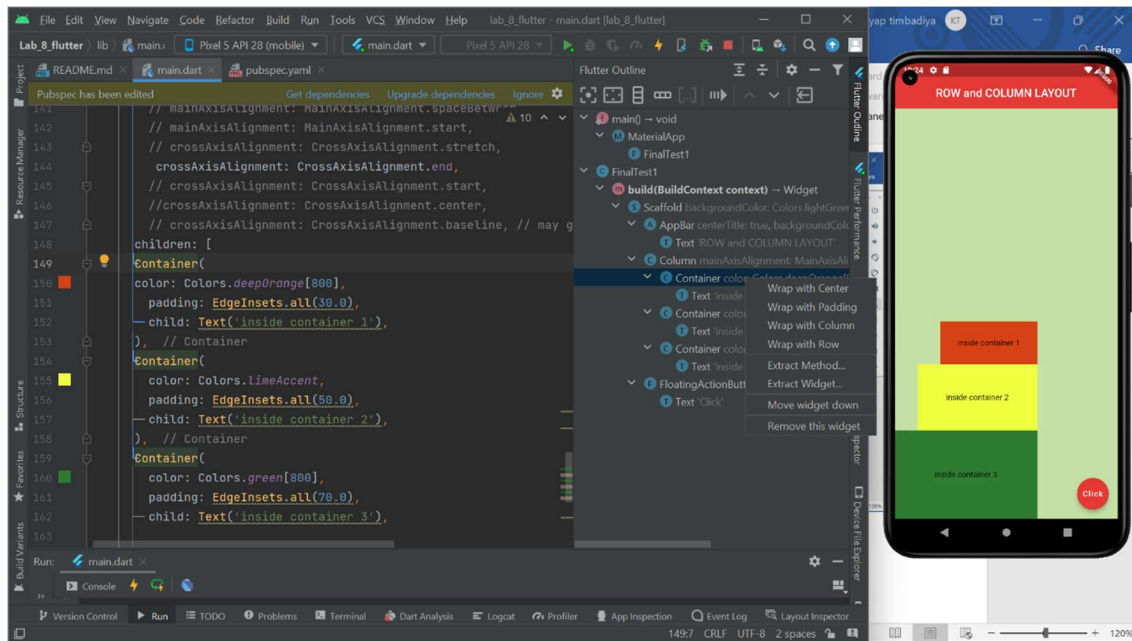
Top editor window:

```
// crossAxisAlignment: CrossAxisAlignment.baseline, // may generate  error....
children: [
Container(
  color: Colors.limeAccent,
  padding: EdgeInsets.all(50.0),
  child: Text('inside container 2'),
),  // Container
Container(
color: Colors.deepOrange[800],
  padding: EdgeInsets.all(30.0),
  child: Text('inside container 1'),
),  // Container
Container(
  color: Colors.green[800],
  padding: EdgeInsets.all(70.0),
  child: Text('inside container 3'),

),  // Container
],
),  // Column
floatingActionButton: FloatingActionButton(
  onPressed: () {}, // must required property...
    // making change at here to test hot reloading..click --> click me---> Click and ctrl + s
```

Bottom editor window:

```
//mainAxisAlignment: MainAxisAlignment.center,
mainAxisAlignment: MainAxisAlignment.end,
// mainAxisAlignment: MainAxisAlignment.spaceEvenly,
// mainAxisAlignment: MainAxisAlignment.spaceBetween,
// mainAxisAlignment: MainAxisAlignment.start,
// crossAxisAlignment: CrossAxisAlignment.stretch,
 crossAxisAlignment: CrossAxisAlignment.end,
// crossAxisAlignment: CrossAxisAlignment.start,
//crossAxisAlignment: CrossAxisAlignment.center,
// crossAxisAlignment: CrossAxisAlignment.baseline, // may generate  error....
children: [
Container(
color: Colors.deepOrange[800],
  padding: EdgeInsets.all(30.0),
  child: Text('inside container 1'),
```

Context menu (bottom window):
- Get dependencies
- Wrap with widget...
- Wrap with Builder
- Wrap with Center
- Wrap with Column
- Wrap with Padding
- Wrap with Row
- Wrap with SizedBox
- Wrap with StreamBuilder
- Move widget down
- Move widget up
- Remove this widget

Press Ctrl+Shift+I to open preview

Screenshot 1 — code editor (main.dart) lines 144–166:

```
        crossAxisAlignment: CrossAxisAlignment.end,
        // crossAxisAlignment: CrossAxisAlignment.start,
        //crossAxisAlignment: CrossAxisAlignment.center,
        // crossAxisAlignment: CrossAxisAlignment.baseline, // may generate  error....
        children: [
          Container(
            color: Colors.deepOrange[800],
            padding: EdgeInsets.all(30.0),
            child: Text('inside container 1'),
          ), // Container
          Padding(
            padding: const EdgeInsets.all(8.0),
            child: Text('inside container 2'),
          ), // Padding
          Container(
            color: Colors.green[800],
            padding: EdgeInsets.all(70.0),
            child: Text('inside container 3'),

          ), // Container
        ],
      ), // Column
      floatingActionButton: FloatingActionButton(
```


Screenshot 2 — code editor (main.dart) lines 119–141:

```
void main() => runApp(MaterialApp(
      home: FinalTest1(),
    )); // MaterialApp

class FinalTest1 extends StatelessWidget {
  // const FinalTest1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen[200],
      appBar: AppBar(
        title: Text('ROW and COLUMN LAYOUT'),
        centerTitle: true,
        backgroundColor: Colors.red[600],
        elevation: 0.0,
      ), // AppBar
      body: Column(
        // mainAxisAlignment: MainAxisAlignment.spaceAround,
        //mainAxisAlignment: MainAxisAlignment.center,
        mainAxisAlignment: MainAxisAlignment.end,
        // mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        // mainAxisAlignment: MainAxisAlignment.spaceBetween,
```

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

void main() => runApp(MaterialApp(
    home: FinalTest1(),
  ));

class FinalTest1 extends StatelessWidget {
// const FinalTest1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen[200],
      appBar: AppBar(
        title: Text('ROW and COLUMN LAYOUT'),
        centerTitle: true,
        backgroundColor: Colors.red[600],
        elevation: 0.0,
      ),
      body: Row(
      children: [
      Container(
      color: Colors.amber[800],
        padding: EdgeInsets.all(30),
        child: Text('1'),
      ),
      Container(
        color: Colors.indigo[900],
        padding: EdgeInsets.all(30),
        child: Text('2'),
      ),
      Container(
        color: Colors.green[800],
        padding: EdgeInsets.all(30),
        child: Text('3'),

      ),
      ],
```
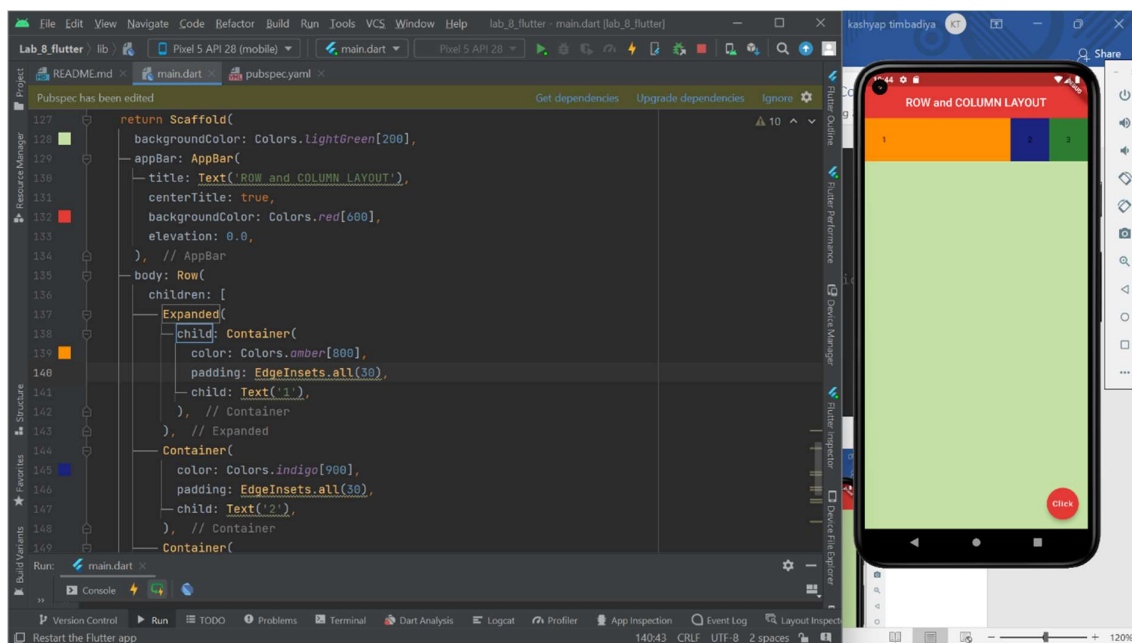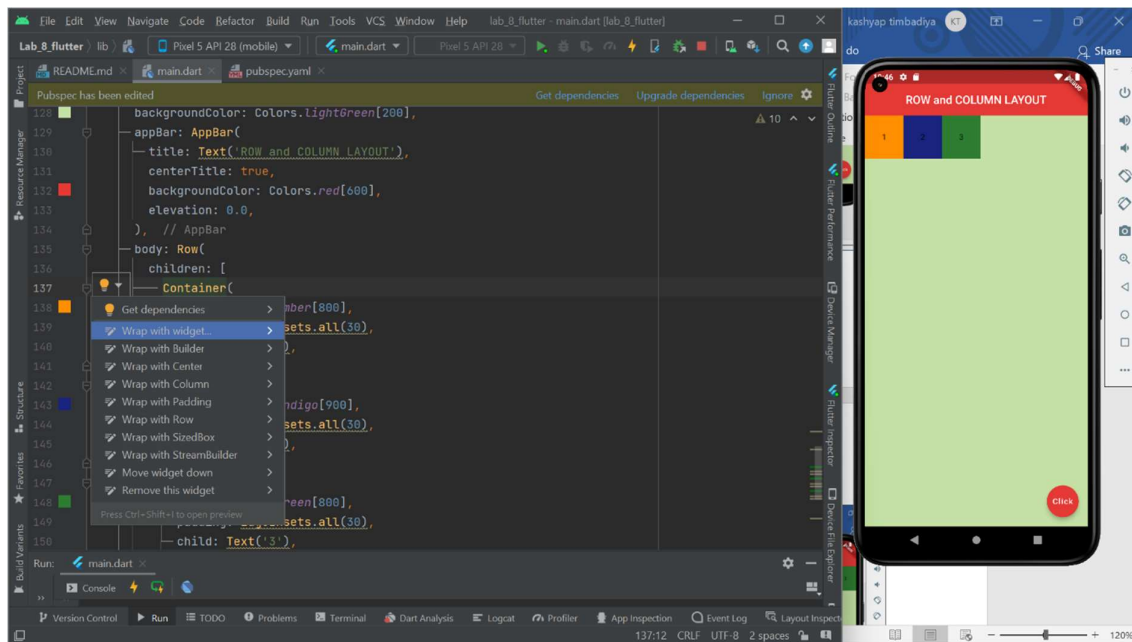
```dart
    ),
      floatingActionButton: FloatingActionButton(
        onPressed: () {}, // must required property...
          // making change at here to test hot reloading..click --> click
me---> Click and ctrl + s
        child: Text('Click'),
        backgroundColor: Colors.red[600],
      ),

    );
  }
}
```
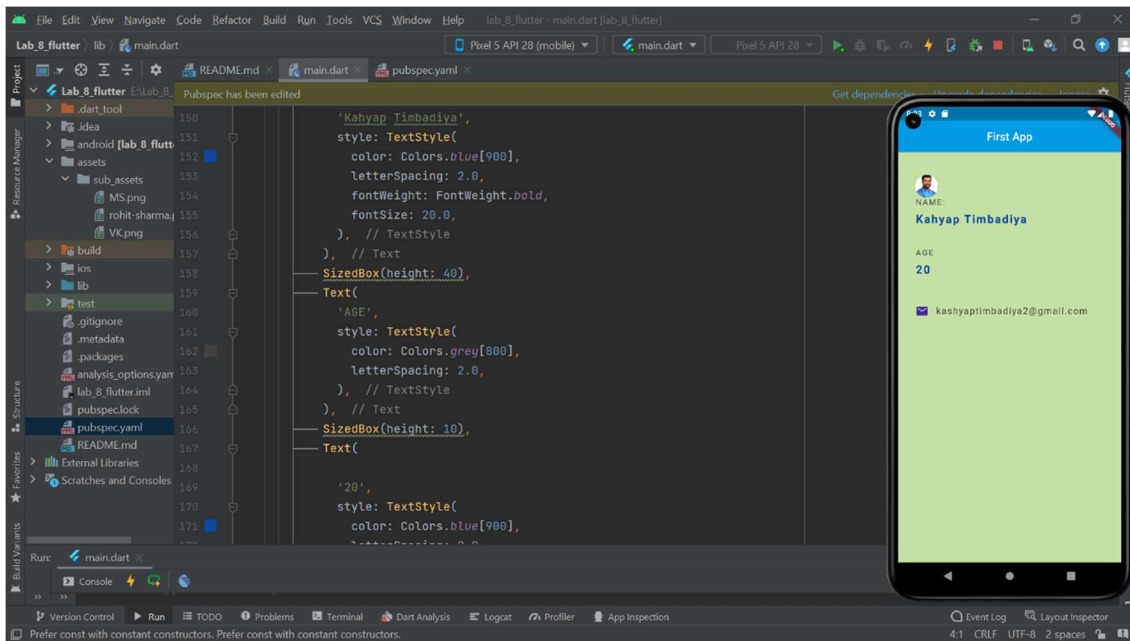
Final Custom Design :

```dart
import 'package:flutter/material.dart';
void main() => runApp(MaterialApp(
  home: FinalTest1(),
));
class FinalTest1 extends StatelessWidget {
// const FinalTest1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen[200],
      appBar: AppBar(
        title: Text('First App'),
        centerTitle: true,
        backgroundColor: Colors.lightBlue[600],
        elevation: 0.0,
      ),
      body: Padding(
        padding: EdgeInsets.fromLTRB(30, 40, 30, 0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            CircleAvatar(
              backgroundImage: AssetImage('assets/sub_assets/rohit-
sharma.png'),
            ),
            Text(
              'NAME: ',
              style: TextStyle(
                color: Colors.grey[800],
                letterSpacing: 2.0,
              ),
            ),
            SizedBox(height: 10),
            Text(
              'Kahyap Timbadiya',
              style: TextStyle(
                color: Colors.blue[900],
                letterSpacing: 2.0,
                fontWeight: FontWeight.bold,
                fontSize: 20.0,
              ),
            ),
            SizedBox(height: 40),
            Text(
              'AGE',
              style: TextStyle(
                color: Colors.grey[800],
                letterSpacing: 2.0,
              ),
```

```
          ),
          SizedBox(height: 10),
          Text(

            '20',
            style: TextStyle(
              color: Colors.blue[900],
              letterSpacing: 2.0,
              fontWeight: FontWeight.bold,
              fontSize: 20.0,
            ),
          ),
          SizedBox(height: 50),
          Row(
            children: [
              Icon(
                Icons.email_rounded,
                color: Colors.deepPurple[800],
              ),
              SizedBox(width: 12.0),
              Text(
                'kashyaptimbadiya2@gmail.com',

                style: TextStyle(

                  color: Colors.brown[800],
                  fontSize: 16.0,
                  letterSpacing: 1.5,

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

State Full widget: