



Flutter App Development Course

DAY # 6

Task 1:

Source Code:

Main.dart

```
import 'dart:html';

import 'package:flutter/material.dart';
import 'package:font_awesome_flutter/font_awesome_flutter.dart';
import 'package:ms_class06/result.dart';
import 'conatinerWid.dart';
import 'icon_content.dart';
import 'constants.dart';
import 'bottomButton.dart';
import 'calculator_brain.dart';

// BottomContainerHeight

enum Gender {
  male,
  female,
}

void main() {
```



```
runApp(MyApp());
}

class MyApp extends StatelessWidget {
  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      theme: ThemeData.dark(),
      debugShowCheckedModeBanner: false,
      home: InputPage(),
    );
  }
}

// =====

class InputPage extends StatefulWidget {
  @override
  _InputPageState createState() => _InputPageState();
}

class _InputPageState extends State<InputPage> {
  Gender selectedGender;

  int height = 5;
  int weight = 50;
  int age = 20;

  // Color maleCardColor = inactiveCardColor;
  // Color femaleCardColor = inactiveCardColor;
```



```
// void updateColor(Gender selectedGender) {  
//   if (selectedGender == Gender.male) {  
//     // male  
//     if (maleCardColor == inactiveCardColor) {  
//       maleCardColor = activeCardColor;  
//       femaleCardColor = inactiveCardColor;  
//     } else {  
//       maleCardColor = inactiveCardColor;  
//     }  
//   }  
//   if (selectedGender == Gender.female) {  
//     // Female  
//     if (femaleCardColor == inactiveCardColor) {  
//       femaleCardColor = activeCardColor;  
//       maleCardColor = inactiveCardColor;  
//     } else {  
//       femaleCardColor = inactiveCardColor;  
//     }  
//   }  
// }
```

@override

Widget build(BuildContext context) {

return Scaffold(
 appBar: AppBar(
 title: Center(child: Text("Shahab's BMI App", style: TextStyle(color: Color(0xff820308) ,fontSize:
25,fontWeight:FontWeight.bold)),),
),
 body: Column(
 title: Center(child: Text("Shahab's BMI App", style: TextStyle(color: Color(0xff820308) ,fontSize:
25,fontWeight:FontWeight.bold)),),
),
),
)

appBar: AppBar(
 title: Center(child: Text("Shahab's BMI App", style: TextStyle(color: Color(0xff820308) ,fontSize:
25,fontWeight:FontWeight.bold)),),
),
 body: Column(
 title: Center(child: Text("Shahab's BMI App", style: TextStyle(color: Color(0xff820308) ,fontSize:
25,fontWeight:FontWeight.bold)),),
),
),
)

title: Center(child: Text("Shahab's BMI App", style: TextStyle(color: Color(0xff820308) ,fontSize:
25,fontWeight:FontWeight.bold)),),
),
 body: Column(
 title: Center(child: Text("Shahab's BMI App", style: TextStyle(color: Color(0xff820308) ,fontSize:
25,fontWeight:FontWeight.bold)),),
),
),
)

),
)

body: Column(
 title: Center(child: Text("Shahab's BMI App", style: TextStyle(color: Color(0xff820308) ,fontSize:
25,fontWeight:FontWeight.bold)),),
),
)



```
children: [
  Expanded(
    child: Row(
      children: [
        Expanded(
          child: ContainerWid(
            onPressed: () {
              setState(() {
                selectedGender = Gender.male;
                print("Male btn is pressed");
              });
            },
            colour: selectedGender == Gender.male
              ? kactiveCardColor
              : kinactiveCardColor,
            cardChild: IconContent(
              icon: FontAwesomeIcons.mars,
              label: "MALE",
            ),
          )),
        Expanded(
          flex: 1,
          child: ContainerWid(
            onPressed: () {
              setState(() {
                selectedGender = Gender.female;
                print("Female btn is pressed");
              });
            },
            colour: selectedGender == Gender.female
```



SHAHAB ALAM



```

        ? kactiveCardColor
        : kinactiveCardColor,
    cardChild: IconContent(
      icon: FontAwesomeIcons.venus,
      label: "FEMALE",
    ),
  )),
],
)),
Expanded(
  child: ContainerWid(
    colour: kinactiveCardColor,
    cardChild: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
        Text(
          "HEIGHT",
          style: klabelTextStyle,
        ),
        Row(
          mainAxisAlignment: MainAxisAlignment.center,
          crossAxisAlignment: CrossAxisAlignment.baseline,
          textBaseline: TextBaseline.alphabetic,
          children: [
            Text(height.toString(), style: kNumberTextStyle),
            Text(
              "ft",
              style: klabelTextStyle,
            ),
          ],
        ),
      ],
    ),
  ),
),

```



```
),

SliderTheme( data: SliderTheme.of(context).copyWith(
  thumbShape: RoundSliderThumbShape(enabledThumbRadius: 12),
  overlayShape: RoundSliderOverlayShape(overlayRadius: 30),
  // overlayColor: Colors.white10,
  thumbColor: Colors.red,
  activeTrackColor: Colors.red
),
  child: Slider(value: height.toDouble(),
    min: 3 ,
    max: 7,
    activeColor: Colors.red ,
    inactiveColor: Colors.red[900] ,
    onChanged: (double newValue){
      setState(() {
        height = newValue.round();
      });
      print(newValue);
    },
  ),
),
],
),
),
Expanded(
  flex: 1,
  child: Row(
    children: [
```



```
Expanded(  
  flex: 1,  
  child: ContainerWid(  
    colour: kinactiveCardColor,  
    cardChild: Column( mainAxisAlignment: MainAxisAlignment.center,  
      children: [  
        Text("WEIGHT",style: klabelTextStyle,),  
        Text(weight.toString(), style: kNumberTextStyle,),  
  
        Row( mainAxisAlignment: MainAxisAlignment.center,  
          children: [  
            RoundIconButton(icon: FontAwesomelcons.minus, onPress: (){  
              setState(() {  
                weight--;  
              });  
            }, ),  
  
            SizedBox(width: 20,),  
  
            RoundIconButton(icon: FontAwesomelcons.plus,onpress: (){  
              setState(() {  
                weight++;  
              });  
            },),  
          ],  
        ),  
  
        ],  
      ),  
    ),  
  ),  
),
```



```
Expanded(  
  flex: 1,  
  child: ContainerWid(  
    colour: kinactiveCardColor,  
    cardChild: Column( mainAxisAlignment: MainAxisAlignment.center,  
      children: [  
        Text("AGE",style: klabelTextStyle,),  
        Text(age.toString(), style: kNumberTextStyle,),  
  
        Row( mainAxisAlignment: MainAxisAlignment.center,  
          children: [  
            RoundIconButton(icon: FontAwesomeIcons.minus,onpress: (){  
              setState(() {  
                age--;  
              });  
            },),  
  
            SizedBox(width: 20,),  
  
            RoundIconButton(icon: FontAwesomeIcons.plus,onpress: (){  
              setState(() {  
                age++;  
              });  
            },),  
          ],  
        )  
  
      ],  
    ),  
  ),  
),
```




```

    ],
  )),

  BottomButton(onTap: (){
    CalculatorBrain calc = CalculatorBrain(height: height,weight: weight);
    Navigator.push(context, MaterialPageRoute(builder: (context) =>
    Result(
      bmiResult: calc.calculateBMI() ,
      resultText: calc.getResult() ,
      suggestion: calc.getSuggest() ,
    )));},
    buttonText: "CALCULATE BMI",)
  ],
),
);
}
}

```

```
// =====
```

```
class RoundIconButton extends StatelessWidget {
```

```
  RoundIconButton({this.icon, this.onpress});
```

```
  final IconData icon;
```

```
  final Function onpress;
```

```
  @override
```

```
  Widget build(BuildContext context) {
```

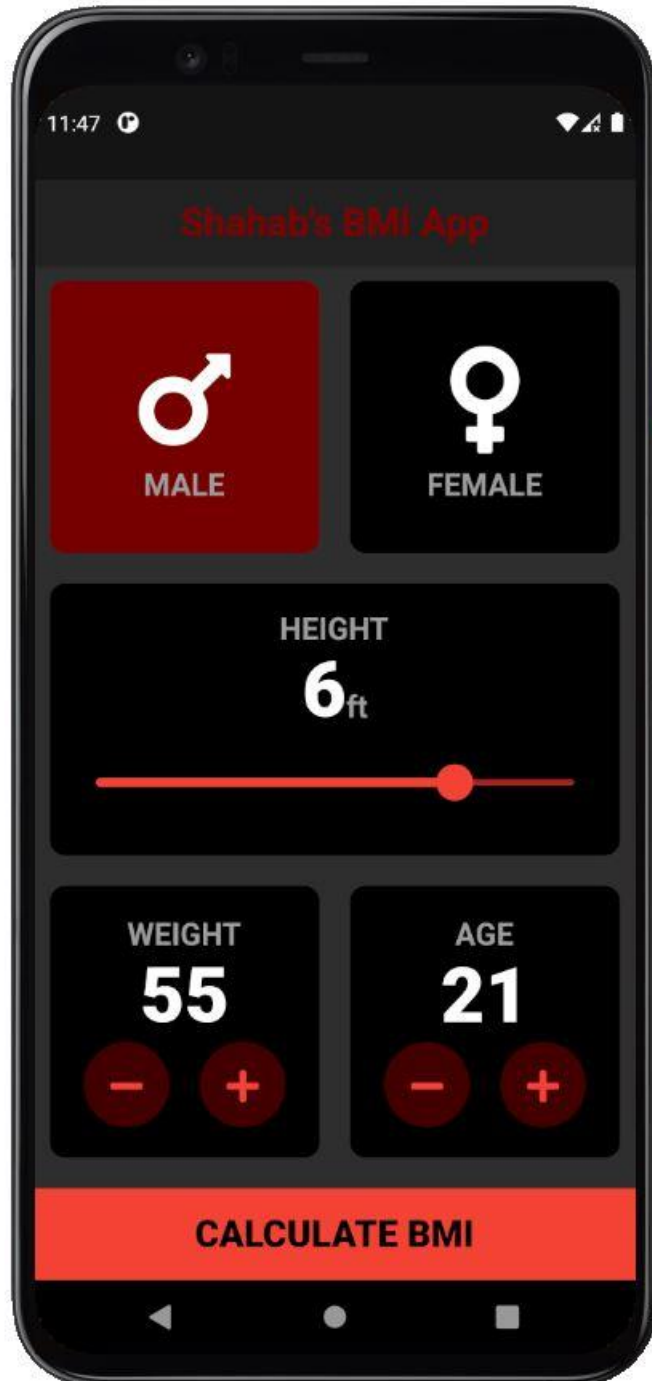


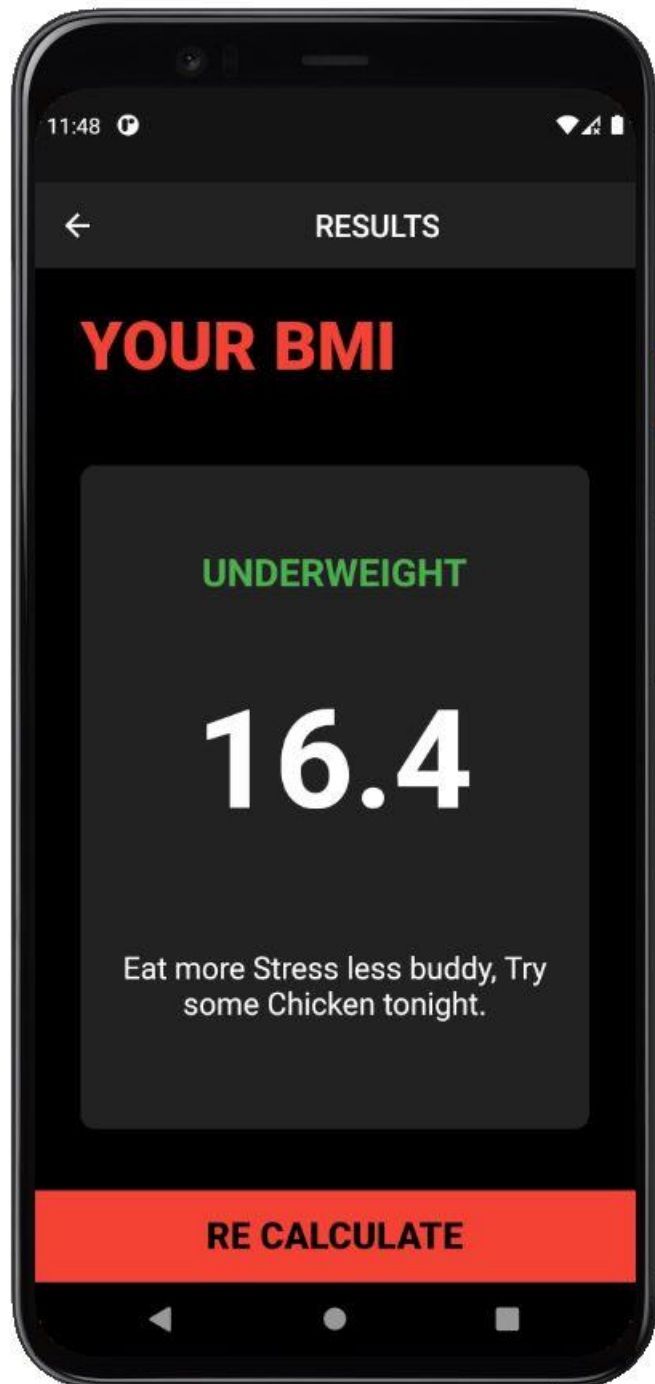
```
return RawMaterialButton(  
  constraints: BoxConstraints.tightFor( width:56, height: 56 ),  
  shape: CircleBorder(),  
  fillColor: Color(0x80820303) ,  
  onPressed: onpress,  
  child: Icon(icon,color: Colors.red,) ,  
);  
}  
}
```

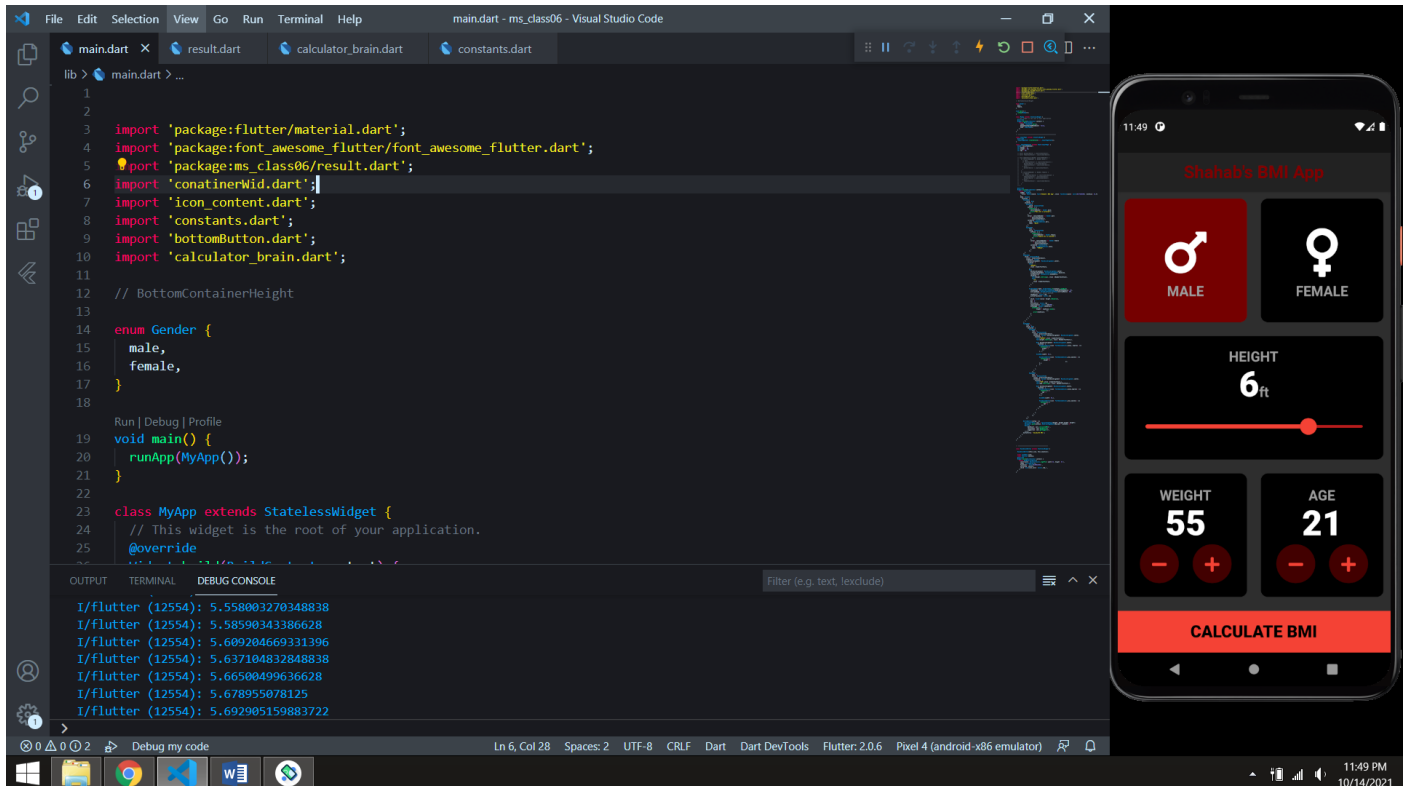


Output:









The image shows a Visual Studio Code editor window with a Dart file named `main.dart`. The code imports various Flutter and custom packages, defines a `Gender` enum, and sets up a `MyApp` widget. The `main` function calls `runApp(MyApp())`. The bottom panel shows the output of the Flutter command, displaying several lines of log output. To the right of the editor, a mobile emulator preview shows the app's UI. The app has a dark theme and includes buttons for 'MALE' and 'FEMALE', a 'HEIGHT' input field with a slider set to 6ft, 'WEIGHT' and 'AGE' input fields with numeric values 55 and 21 respectively, and a 'CALCULATE BMI' button.

```
1
2
3 import 'package:flutter/material.dart';
4 import 'package:font_awesome_flutter/font_awesome_flutter.dart';
5 import 'package:ms_class06/result.dart';
6 import 'conatinerWid.dart';
7 import 'icon_content.dart';
8 import 'constants.dart';
9 import 'bottomButton.dart';
10 import 'calculator_brain.dart';
11
12 // BottomContainerHeight
13
14 enum Gender {
15   male,
16   female,
17 }
18
19 Run | Debug | Profile
20 void main() {
21   runApp(MyApp());
22 }
23
24 class MyApp extends StatelessWidget {
25   // This widget is the root of your application.
26   @override
```

OUTPUT TERMINAL DEBUG CONSOLE

I/flutter (12554): 5.558003270348838
I/flutter (12554): 5.58590343386628
I/flutter (12554): 5.609204669331396
I/flutter (12554): 5.637104832848838
I/flutter (12554): 5.66500499636628
I/flutter (12554): 5.678955078125
I/flutter (12554): 5.692905159883722

Ln 6, Col 28 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.0.6 Pixel 4 (android-x86 emulator)

11:49 PM 10/14/2021