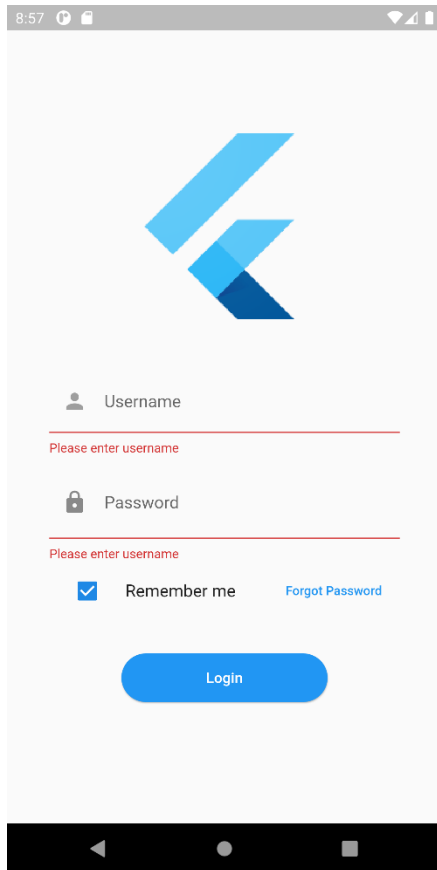



Screenshots



8:57

ramis



Username

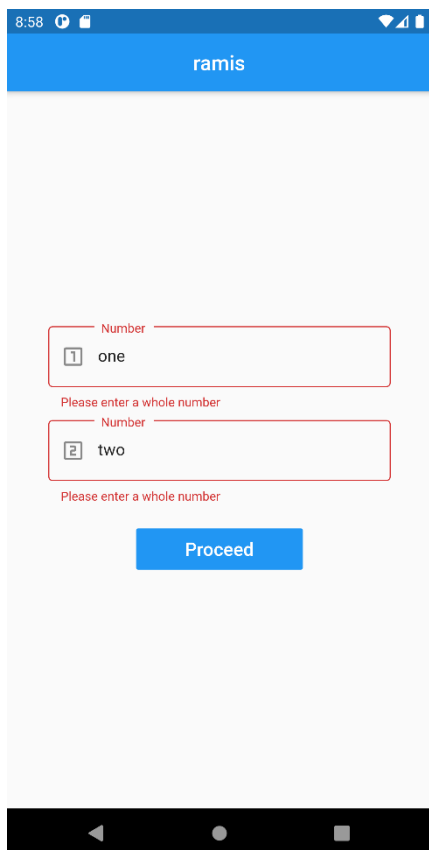
Please enter username

Password

Please enter username

☒ Remember me [Forgot Password](#)

Login



8:58

ramis

Number

1 one

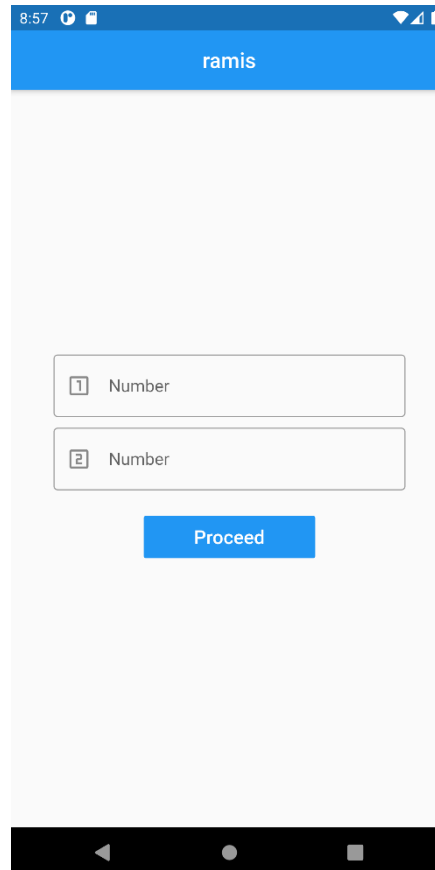
Please enter a whole number

Number

2 two

Please enter a whole number

Proceed



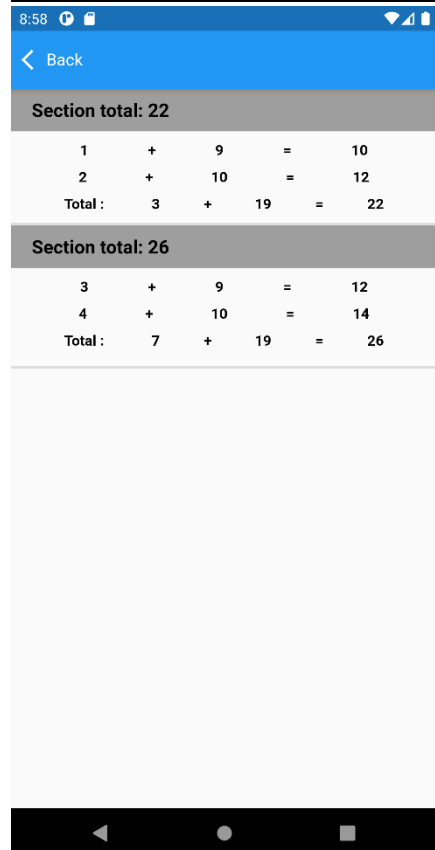
8:57

ramis

1 Number

2 Number

Proceed



8:58

< Back

Section total: 22

1	+	9	=	10
2	+	10	=	12
Total :	3	+	19	= 22

Section total: 26

3	+	9	=	12
4	+	10	=	14
Total :	7	+	19	= 26

Solution

Task Code:

Main.dart

```
import 'package:flutter/material.dart';
import 'package:madlab5/home.dart';
import 'package:splashscreen/splashscreen.dart';

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

class MyApp extends StatelessWidget {
  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'Lab 3',
      home: Splash()
    );
  }
}

class Splash extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return SplashScreen(
      seconds: 5,
      backgroundColor: Colors.white,
      image: Image.asset('files/flutter-logo.png'),
      loaderColor: Colors.blue,
      photoSize: 150,
      navigateAfterSeconds: Login(),
    );
  }
}

class Login extends StatefulWidget {
  @override
  _LoginState createState() => _LoginState();
}

class _LoginState extends State<Login> {
  final usernameController = TextEditingController();
  final passwordController = TextEditingController();
  bool passwordHide = true;
  bool rememberMe = true;
  final formKey = GlobalKey<FormState>();

  @override
  Widget build(BuildContext context) {
    return Form(
      key: formKey,
      child: Scaffold(
        body: Center(
          child: SingleChildScrollView(
            child: Padding(
              padding: EdgeInsets.symmetric(horizontal:
40).add(EdgeInsets.only(bottom: MediaQuery.of(context).viewInsets.bottom)),
```

```

child: Column(
  mainAxisAlignment: MainAxisAlignment.center,
  mainAxisSize: MainAxisSize.min,
  children: [
    Image.asset("files/flutter-logo.png"),
    SizedBox(height: 40,),
    TextFormField(
      decoration: InputDecoration(
        prefixIcon: Icon(Icons.person, color: Colors.grey,),
        labelText: " Username ",
        border: UnderlineInputBorder()
      ),
      controller: usernameController,
      validator: (inputVal){
        if (inputVal.length > 0)
          return null;
        else
          return "Please enter username";
      },
    ),
    SizedBox(height: 10,),
    TextFormField(
      obscureText: passwordHide,
      decoration: InputDecoration(
        prefixIcon: Icon(Icons.lock),
        labelText: ' Password ',
        suffix: GestureDetector(child: Icon(passwordHide ?
Icons.remove_red_eye : Icons.remove_red_eye_outlined), onTap: (){setState(()
{passwordHide = !passwordHide;});}),
        border: UnderlineInputBorder()
      ),
      controller: passwordController,
      validator: (inputVal){
        if (inputVal.length > 0)
          return null;
        else
          return "Please enter username";
      },
    ),
    Row(
      mainAxisAlignment: MainAxisAlignment.spaceBetween,
      children: [
        Container(width: 200, child:
CheckboxListTile(controlAffinity: ListTileControlAffinity.leading, value:
rememberMe, onChanged: (value){setState(() {rememberMe = value;});}, title:
Text("Remember me")),),
        FlatButton(child: Text("Forgot Password", style:
TextStyle(fontSize: 12)),, textColor: Colors.blue, disabledTextColor: Colors.blue,
onPressed: () { },),
      ],
    ),
    SizedBox(height: 30,),
    RaisedButton(
      shape: StadiumBorder(),
      elevation: 1,
      color: Colors.blue,
      padding: EdgeInsets.symmetric(horizontal: 80, vertical: 15),
      textColor: Colors.white,
      child: Text("Login"),
    ),
  ],
),
)

```

```
onPressed: ()async{
    if (formKey.currentState.validate())
    await showDialog(
        context: context,
        barrierDismissible: false,
        builder: (ctx){
            return AlertDialog(
                title: Text("Your username is
${usernameController.text}"),
                content: Text("Your password is
${passwordController.text}"),
                actions: [
                    RaisedButton(
                        shape: StadiumBorder(),
                        elevation: 2,
                        color: Colors.blue,
                        textColor: Colors.white,
                        child: Text("Continue"),
                        onPressed: (){
                            Navigator.of(context).pop();
                            Navigator.of(context).push(MaterialPageRoute(builder: (context) =>
                                HomePage(usernameController.text)));
                        },
                    ),
                ],
            );
        }
    );
},
),
),
),
),
),
),
),
);
}
```

Home.dart

```
import 'package:flutter/material.dart';
import 'package:madlab5/calculation.dart';

class HomePage extends StatefulWidget {
  String username;
  HomePage(this.username);
  @override
  _HomePageState createState() => _HomePageState();
}

class _HomePageState extends State<HomePage> {
  final num1Controller = TextEditingController();
  final num2Controller = TextEditingController();
  final formKey = GlobalKey<FormState>();

  @override
  Widget build(BuildContext context) {
    return Form(
      key: formKey,
      child: Scaffold(
        appBar: AppBar(
          centerTitle: true,
          title: Text(widget.username),
          automaticallyImplyLeading: false,
        ),
        body: Center(
          child: SingleChildScrollView(
            child: Padding(
              padding: EdgeInsets.symmetric(horizontal:
40).add(EdgeInsets.only(bottom: MediaQuery.of(context).viewInsets.bottom)),
              child: Column(
                children: [
                  TextFormField(
                    decoration: InputDecoration(
                      prefixIcon: Icon(Icons Looks_one_outlined),
                      labelText: " Number ",
                      border: OutlineInputBorder()
                    ),
                    controller: num1Controller,
                    validator: (inputVal){
                      if (inputVal.length > 0 && (int.tryParse(inputVal) != null))
                        return null;
                      else
                        return "Please enter a whole number";
                    },
                  ),
                  SizedBox(height: 10,),
                  TextFormField(
                    decoration: InputDecoration(
                      prefixIcon: Icon(Icons Looks_two_outlined),
                      labelText: ' Number ',
                      border: OutlineInputBorder()
                    ),
                    controller: num2Controller,
                    validator: (inputVal){
                      if (inputVal.length > 0 && (int.tryParse(inputVal) != null))
                        return null;
                      else
```

```

        return "Please enter a whole number";
    },
),
    SizedBox(height: 20,),
    FlatButton(
        height: 40,
        minWidth: MediaQuery.of(context).size.width - 250,
        color: Colors.blue,
        textColor: Colors.white,
        child: Text("Proceed", style: TextStyle(fontSize: 18)),
        onPressed: (){
            if (formKey.currentState.validate())
                Navigator.of(context).push(MaterialPageRoute(builder:
(context) => CalculationScreen(int.parse(num1Controller.text),
int.parse(num2Controller.text))));
        }
    )
],
),
),
),
),
),
);
}
}

```

Calculation.dart

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

class CalculationScreen extends StatefulWidget {
  int number1;
  int number2;

  CalculationScreen(this.number1, this.number2);
  @override
  _CalculationScreenState createState() => _CalculationScreenState();
}

class _CalculationScreenState extends State<CalculationScreen> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        leadingWidth: 200,
        leading: GestureDetector(
          onTap: () {Navigator.of(context).pop();},
          child: Row(
            mainAxisAlignment: MainAxisAlignment.min,
            crossAxisAlignment: CrossAxisAlignment.center,
            children: [
              SizedBox(width: 10,),
              Icon(Icons.arrow_back_ios),
              Text("Back", style: TextStyle(color: Colors.white, fontSize: 16),)
            ],
          ),
        ),
      body: SingleChildScrollView(
        child: DefaultTextStyle(
          style: TextStyle(fontWeight: FontWeight.bold, color: Colors.black),
          child: Column(
            crossAxisAlignment: CrossAxisAlignment.start,
            children: [
              Container(
                padding: EdgeInsets.only(left: 20, top: 10, bottom: 10),
                width: MediaQuery.of(context).size.width,
                decoration: BoxDecoration(
                  color: Colors.grey,
                ),
                child: Text("Section total: ${3 + widget.number1 + widget.number2}", style: TextStyle(fontSize: 18),),
              ),
              Container(
                padding: EdgeInsets.symmetric(horizontal: 10, vertical: 10),
                child: Column(
                  crossAxisAlignment: CrossAxisAlignment.start,
                  children: [
                    Row(
                      mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                      children: [Text("1"), Text("+"),
Text(widget.number1.toString()), Text("="), Text((widget.number1 + 1).toString())],
                    ),
                    SizedBox(height: 10,),
                    Row(
```

```

        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        children: [Text("2"), Text("+"),
Text(widget.number2.toString()), Text("="), Text((widget.number2 +
2).toString())],
    ),
    SizedBox(height: 10,),
    Row(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        children: [Text("Total : "), Text("3"), Text("+"),
Text((widget.number1 + widget.number2).toString()), Text("="),
Text((widget.number1 + widget.number2 + 3).toString())],
    )
  ],
),
),
Divider(thickness: 2,height: 3,),
Container(
  padding: EdgeInsets.only(left: 20, top: 10, bottom: 10),
  width: MediaQuery.of(context).size.width,
  decoration: BoxDecoration(
    color: Colors.grey,
  ),
  child: Text("Section total: ${7 + widget.number1 +
widget.number2}", style: TextStyle(fontSize: 18)),),
),
Container(
  padding: EdgeInsets.symmetric(horizontal: 10, vertical: 10),
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
      Row(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        children: [Text("3"), Text("+"),
Text(widget.number1.toString()), Text("="), Text((widget.number1 +
3).toString())],
      ),
      SizedBox(height: 10,),
      Row(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        children: [Text("4"), Text("+"),
Text(widget.number2.toString()), Text("="), Text((widget.number2 +
4).toString())],
      ),
      SizedBox(height: 10,),
      Row(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        children: [Text("Total : "), Text("7"), Text("+"),
Text((widget.number1 + widget.number2).toString()), Text("="),
Text((widget.number1 + widget.number2 + 7).toString())],
      )
    ],
  ),
),
),
Divider(thickness: 2,),
],
),
),
),
);

```



```
}  
}
```