CHAPTER 3

MODULE 2

EXERCISE 1
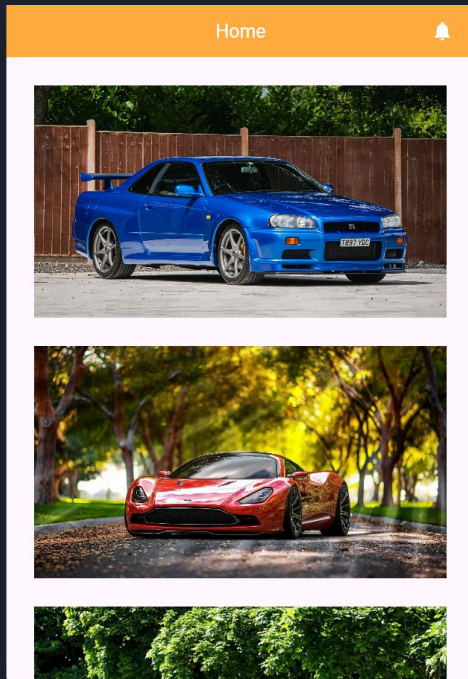
Home page
AppBar-
- title (home)
- IconButton
(click to notificaton page
Body-
-container-image

Notification page
AppBar-
- title (notificaton)
Body-
- Listview builder
- Padding
- Container
- ListTaile
(icon 'person',
title 'notification' ,
IconButton 'delete ')

```dart
import 'package:flutter/material.dart';
class Noti extends StatefulWidget{
  Noti({super.key});
  State<Noti> createState() => _noti();
}
class _noti extends State<Noti>{
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Home',style: TextStyle(fontSize: 20,color: Colors.white),),
        centerTitle: true,
        backgroundColor: Colors.orangeAccent,
        actions: [
          IconButton(onPressed: (){
            Navigator.of (context).push(
            MaterialPageRoute(builder:
            (context) => fication() ,));}, // MaterialPageRoute
            icon: Icon(Icons.notifications,color: Colors.white,)), // IconButton
            SizedBox(width: 15),
        ],
      ), // AppBar
      body: SingleChildScrollView(
        child: Center(
        child: Column(children: [
          Padding(padding: EdgeInsetsGeometry.all(30),
          child: Container(
            width: 900,
            height: 250,
            decoration: BoxDecoration(),
            child: Image.asset('assets/car3.jpg',fit: BoxFit.cover,),
          ),), // Container // Padding
          Padding(padding: EdgeInsetsGeometry.symmetric(horizontal: 30),
          child: Container(
            width: 900,
            height: 250,
            decoration: BoxDecoration(),
```

```dart
          child: Image.asset('assets/car1.jpg',fit: BoxFit.cover,),
        ),), // Container // Padding
        Padding(padding: EdgeInsetsGeometry.all(30),
          child: Container(
            width: 900,
            height: 250,
            decoration: BoxDecoration(),
            child: Image.asset('assets/car2.jpg',fit: BoxFit.cover,),
        ),), // Container // Padding
        Padding(padding: EdgeInsetsGeometry.symmetric(horizontal: 30),
          child: Container(
            width: 900,
            height: 250,
            decoration: BoxDecoration(),
            child: Image.asset('assets/car4.jpg',fit: BoxFit.cover,),
        ),), // Container // Padding
      ],), // Column
    ), // Center
  ) // SingleChildScrollView
  ); // Scaffold
  }
}
class fication extends StatefulWidget {
  const fication({super.key});
  @override
  State<fication> createState() => _fic();
}
class _fic extends State<fication> {
List<String> notifications = [
  "Notification",
  "Notification",
  "Notification",
  "Notification",
  "Notification",
];
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: const Text('Notification'),
      centerTitle: true,
      backgroundColor: Colors.yellow,
    ), // AppBar
    body: ListView.builder(
      padding: const EdgeInsets.all(20),
      itemCount: notifications.length,
      itemBuilder: (context, index) {
        return Padding(
          padding: const EdgeInsets.symmetric(vertical: 8),
          child: Container(
            decoration: BoxDecoration(
              border: Border.all(),
              borderRadius: BorderRadius.circular(20),
            ), // BoxDecoration
            child: ListTile(
              leading: const Icon(Icons.people_sharp),
              title: Text(
                notifications[index],
                style: const TextStyle(fontWeight: FontWeight.bold),
              ), // Text
              trailing: IconButton(
                icon: const Icon(Icons.delete, color: Colors.red),
                onPressed: () {
                  setState(() {
                    notifications.removeAt(index);
                  });
                },
              ), // IconButton
            ), // ListTile
```
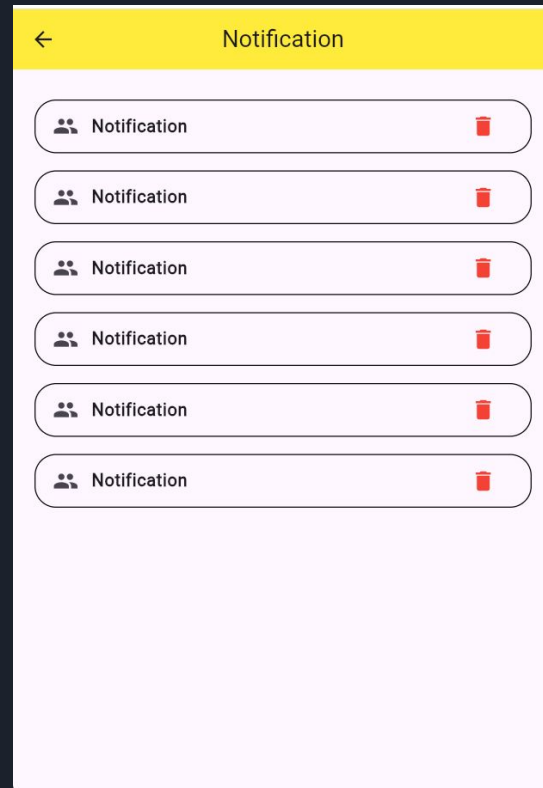
Notification (app preview)

- 👥 Notification 🗑
- 👥 Notification 🗑
- 👥 Notification 🗑
- 👥 Notification 🗑
- 👥 Notification 🗑
- 👥 Notification 🗑

```dart
import 'package:flutter/material.dart';
class Homee extends StatefulWidget{
  Homee({super.key});
  @override
  State<Homee> createState() => __home();
}
class __home extends State<Homee>{
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Home Page'),
        centerTitle: true,
        backgroundColor: Colors.blueGrey,
      ), // AppBar
      body: Center(
        child: Column(mainAxisAlignment: MainAxisAlignment.center, children: [
          ElevatedButton(
            style: ElevatedButton.styleFrom(
              backgroundColor: Colors.indigo,
              foregroundColor: Colors.black,
              padding: EdgeInsets.symmetric(horizontal: 80,vertical: 20),
              textStyle: TextStyle(fontSize: 20,fontWeight: FontWeight.bold),
              shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(20)),
              elevation: 5,
            ),
            onPressed: (){
              Navigator.push(context, MaterialPageRoute(builder: (context) => Profile()));
            }, child: Text('Profile')), // ElevatedButton
          SizedBox(height: 30),
          ElevatedButton(
            style: ElevatedButton.styleFrom(
              backgroundColor: Colors.green,
              foregroundColor: Colors.black,
              padding: EdgeInsets.symmetric(horizontal: 60,vertical: 20),
              textStyle: TextStyle(fontSize: 20,fontWeight: FontWeight.bold),
              shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(20)),
```

```dart
              elevation: 5,
            ),
            onPressed: (){
              Navigator.push(context, MaterialPageRoute(builder: (context) => Not()));
            }, child: Text('Notification')), // ElevatedButton
        ],)), // Column
      ), // Center
    ); // Scaffold
  }
}
class Profile extends StatelessWidget{
  Profile({super.key});
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Profile'),
        centerTitle: true,
        backgroundColor: Colors.blue,
      ), // AppBar
      body: Center(
        child: ElevatedButton(
          style: ElevatedButton.styleFrom(
            backgroundColor: Colors.red,
            foregroundColor: Colors.black,
            padding: EdgeInsets.symmetric(horizontal: 40,vertical: 20),
            textStyle: TextStyle(fontSize: 20,fontWeight: FontWeight.bold),
            shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(20)),
            elevation: 5,
          ),
          onPressed: (){
            Navigator.pop(context);
          }, child: Text('Back to Home page')), // ElevatedButton
      ), // Center
```
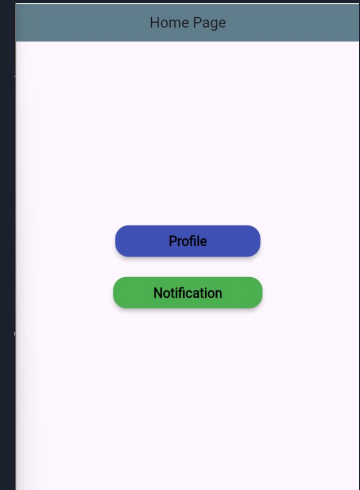
Profile

← Profile

Back to Home page

Notification

← Notification

Back to Home page

```
76  class Not extends StatelessWidget{
77    Not({super.key});
78    @override
79    Widget build(BuildContext context) {
80      return Scaffold(
81        appBar: AppBar(
82          title: Text('Notification'),
83          centerTitle: true,
84          backgroundColor: Colors.greenAccent,
85        ), // AppBar
86        body: Center(
87          child: ElevatedButton(
88            style: ElevatedButton.styleFrom(
89              backgroundColor: Colors.red,
90              foregroundColor: Colors.black,
91              padding: EdgeInsets.symmetric(horizontal: 40,
92              vertical: 20), // EdgeInsets.symmetric
93              textStyle: TextStyle(fontSize: 20,
94              fontWeight: FontWeight.bold), // TextStyle
95              shape: RoundedRectangleBorder(
96                borderRadius: BorderRadius.circular(20)), //
97              elevation: 5,
98            ),
99            onPressed: (){
100               Navigator.pop(context);
101            }, child: Text('Back to Home page')), // Elevated
102        ), // Center
103      ); // Scaffold
```

Push Replacement , Named Route ,Push And Remove Until

```dart
import 'package:exercise3/route.dart';
import 'package:flutter/material.dart';
Run | Debug | Profile
void main(){
  runApp(
    Named());
}
class Named extends StatelessWidget{
  Named({super.key});
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      initialRoute: 'log',
      routes: {
        'log' : (context) => Login(),
        'ho': (context) =>  Home(),
        'pro' : (context) => Profile(),
        'sett' :(context) => Settings(),
      },
    ); // MaterialApp
  }
}
```
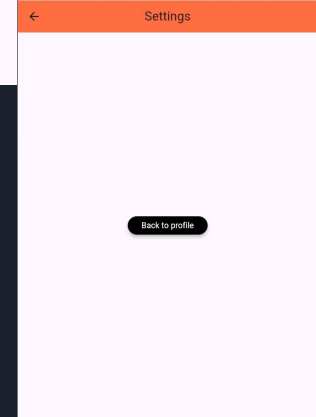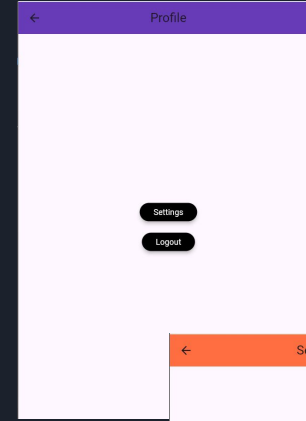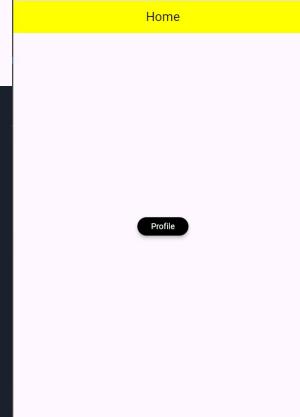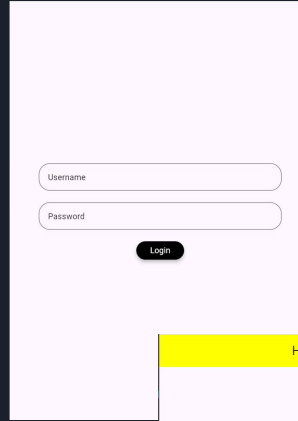
```dart
import 'package:flutter/material.dart';
class Login extends StatelessWidget {
  const Login({super.key});
  @override
  Widget build(BuildContext context) {
    return Scaffold(body: Center(
        child: Padding(padding: EdgeInsetsGeometry.all(50),
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [ TextField(
              decoration: InputDecoration(
                hint: Text('Username'),
                border: OutlineInputBorder(borderRadius: BorderRadius.circular(20))
              ), // InputDecoration
            ), // TextField
            SizedBox(height: 20),
            TextField(
              obscureText: true,
              decoration: InputDecoration(
                hint: Text('Password'),
                border: OutlineInputBorder(borderRadius: BorderRadius.circular(20))
              ), // InputDecoration
            ), // TextField
            SizedBox(height: 20),
            ElevatedButton(
            style: ElevatedButton.styleFrom(
              backgroundColor: Colors.black,
              elevation: 5,
            ),
            onPressed: (){
              Navigator.pushReplacement(
                context, MaterialPageRoute(
                  builder: (context)=>Home())); // MaterialPageRoute
            },
            child: Text('Login',style: TextStyle(color: Colors.white,)),), // Elevate
          ],
        ), // Column
```

```dart
class Home extends StatelessWidget {
  const Home({super.key});
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        backgroundColor: Colors.yellowAccent,
        title: Text('Home'),
        centerTitle: true,
      ), // AppBar
      body: Center(
        child: ElevatedButton(
          style: ElevatedButton.styleFrom(
            backgroundColor: Colors.black,
            elevation: 5,
          ),
          onPressed: (){
            Navigator.pushNamed(context, 'pro');
          },
          child: Text('Profile',style: TextStyle(
            color: Colors.white
          ),)),   // TextStyle // Text // Elevatec
      ), // Center
    ); // Scaffold
  }
}
```

```
79    //profile page
80    body: Center(
81      child: Column(mainAxisAlignment: MainAxisAlignment.center, children: [
82        ElevatedButton(
83          style: ElevatedButton.styleFrom(
84            backgroundColor: ☐Colors.black,
85            elevation: 5,),
86          onPressed: (){
87            Navigator.pushNamed(context, 'sett');
88          },
89          child: Text('Settings',style: TextStyle(
90            color: ☐Colors.white
91            ),)),  // TextStyle // Text // ElevatedButton
92          SizedBox(height: 20),
93          ElevatedButton(
94          style: ElevatedButton.styleFrom(
95            backgroundColor: ☐Colors.black,
96            elevation: 5,
97          ),
98          onPressed: (){ |
99            Navigator.pushAndRemoveUntil(
100             context, MaterialPageRoute(
101               builder: (context)=>Login()), // MaterialPageRoute
102               (Route<dynamic> route)=>false);
103           },
104           child: Text('Logout',style: TextStyle(
105             color: ☐Colors.white
106             ),)),  // TextStyle // Text // ElevatedButton
107           ],), // Column
108       ), // Center
109     ); // Scaffold
```

```
111   class Settings extends StatelessWidget {
112     const Settings({super.key});
113
114     @override
115     Widget build(BuildContext context) {
116       return Scaffold(
117         appBar: AppBar(
118           backgroundColor: ☐Colors.deepOrangeAccent,
119           title: Text('Settings'),
120           centerTitle: true,
121         ), // AppBar
122         body: Center(
123           child: ElevatedButton(
124             style: ElevatedButton.styleFrom(
125               backgroundColor: ☐Colors.black,
126               elevation: 5,
127             ),
128             onPressed: (){
129               Navigator.pop(context);
130             },
131             child: Text('Back to profile',style: TextStyle(
132               color: ☐Colors.white
133               ),)),  // TextStyle // Text // ElevatedButton
134         ), // Center
135       ); // Scaffold
136     }
137   }
```