

4.a) Set up navigation between different screens using navigator.

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

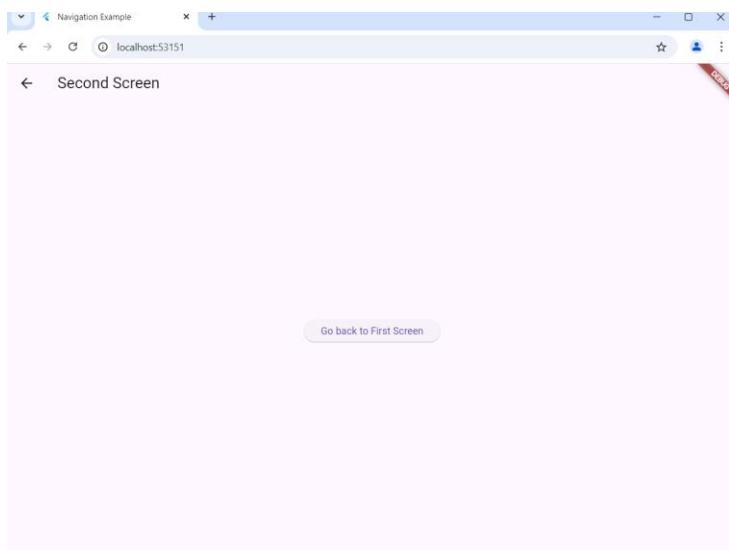
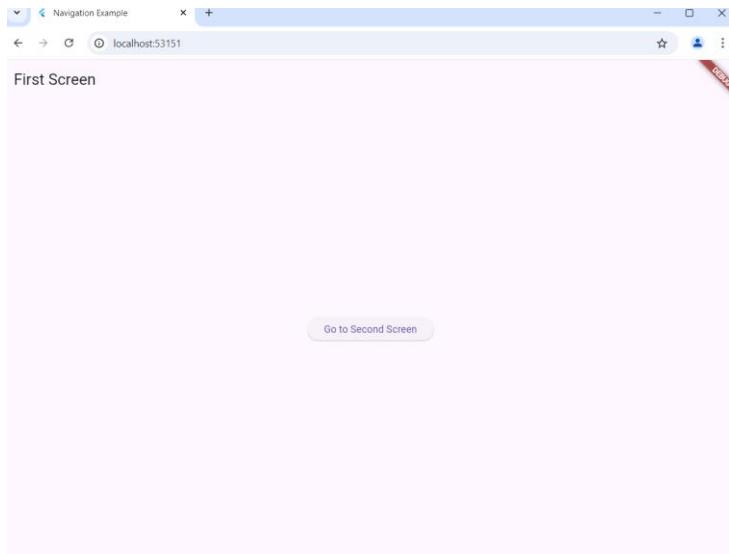
void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Navigation Example',
      home: FirstScreen(),
    );
  }
}

class FirstScreen extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('First Screen'),
      ),
      body: Center(
        child: ElevatedButton(
          onPressed: () {
            // Navigate to the second screen
            Navigator.push(
              context,
              MaterialPageRoute(builder: (context) => SecondScreen()),
            );
          },
          child: Text('Go to Second Screen'),
        ),
      ),
    );
  }
}
```

```
        ),  
        ),  
    );  
}  
  
}  
  
class SecondScreen extends StatelessWidget {  
  
    @override  
    Widget build(BuildContext context) {  
        return Scaffold(  
            appBar: AppBar(  
                title: Text('Second Screen'),  
            ),  
            body: Center(  
                child: ElevatedButton(  
                    onPressed: () {  
                        // Navigate back to the first screen  
                        Navigator.pop(context);  
                    },  
                    child: Text('Go back to First Screen'),  
                ),  
            ),  
        );  
    }  
}
```

Output:



4.b) Implement navigation with named routes.

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
```

```
title: 'Named Routes Demo',
initialRoute: '/',
routes: {
  '/': (context) => HomeScreen(),
  '/second': (context) => SecondScreen(),
  '/third': (context) => ThirdScreen(),
},
};

}

class HomeScreen extends StatelessWidget {
@Override
Widget build(BuildContext context) {
return Scaffold(
  appBar: AppBar(
    title: Text('Home Screen'),
  ),
  body: Center(
    child: ElevatedButton(
      onPressed: () {
        Navigator.pushNamed(context, '/second');
      },
      child: Text('Go to Second Screen'),
    ),
  ),
);
}

class SecondScreen extends StatelessWidget {
@Override
Widget build(BuildContext context) {
```

```
return Scaffold(  
    appBar: AppBar(  
        title: Text('Second Screen'),  
    ),  
    body: Center(  
        child: ElevatedButton(  
            onPressed: () {  
                Navigator.pushNamed(context, '/third');  
            },  
            child: Text('Go to Third Screen'),  
        ),  
    ),  
);  
}  
  
class ThirdScreen extends StatelessWidget {  
    @override  
    Widget build(BuildContext context) {  
        return Scaffold(  
            appBar: AppBar(  
                title: Text('Third Screen'),  
            ),  
            body: Center(  
                child: ElevatedButton(  
                    onPressed: () {  
                        Navigator.popUntil(context, ModalRoute.withName('/'));  
                    },  
                    child: Text('Go Back to Home'),  
                ),  
            ),  
        );  
    }  
}
```

```
}
```

Output:

