

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'),
        ),
      ),
    );
  }
}
```

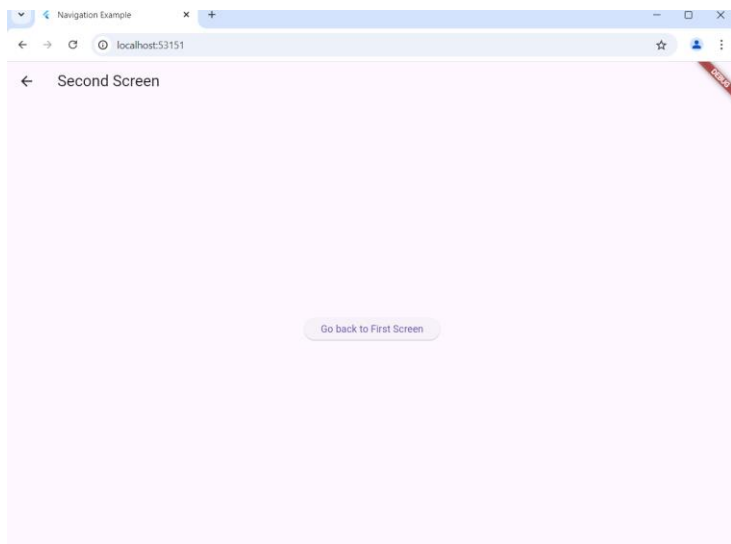
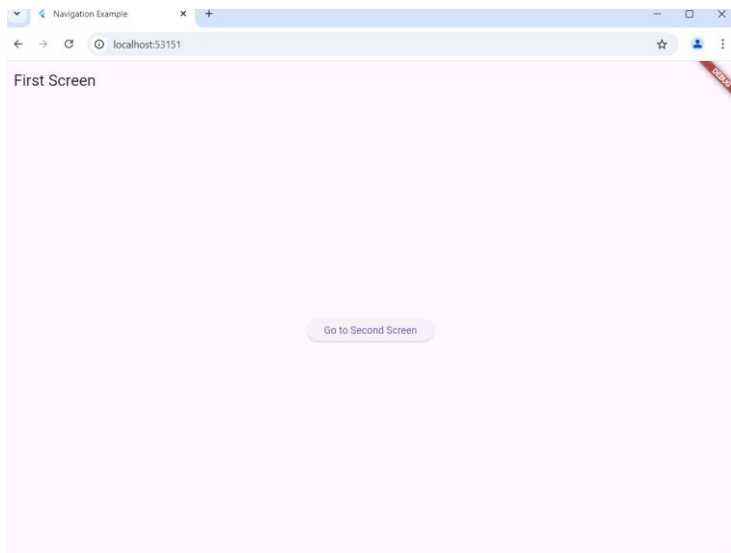
```

    ),
  ),
);
}
}

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(  
      routes: {  
        '/': (context) => FirstScreen(),  
        '/second': (context) => SecondScreen(),  
      },  
    );  
  }
```

```

    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:

