Navigation in Flutter DropdownMenu Slider

Types of Navigation in Flutter

- Stack-based navigation
- Nested and named routing
- Drawer-based navigation
- Bottom navigation bar

Stack-based Navigation

- Manages a stack of routes, using the methods push ()
 and pop ()
- Each screen is treated as a "route" added to the stack.

Sending data to a new screen

- To send data to a new screen, you should:
 - Define data in the new screen:

```
class Screen3 extends StatelessWidget {
   final String text;
   const Screen3({super.key, required this.text});.....
```

Send it through the Navigator

Named Routes Navigation

Routes are predefined with names in the MaterialApp widget for easy access.

```
MaterialApp (
home: FirstRoute(),
routes: {
  '/screen2': (context) => const Screen2(),
  '/screen4': (context) => const Screen4(),
      },),
Use routes to navigate:
onPressed: () {
   Navigator.pushNamed(context, '/screen4');}
```

Sending data to a named screen

- To send data to a new screen, you should:
 - Define data in the new class:

```
class ScreenArguments {
    final String sender;
    final String message;
    ScreenArguments(this.sender, this.message);}
```

Pass data through pushNamed Navigator:

```
Navigator.pushNamed(context, '/screen4', arguments:ScreenArguments(s,m));
```

Use them in the screen:

```
final args = ModalRoute.of(context)!.settings.arguments as ScreenArguments;
Text(args.message)
```

Slider Widget

- A widget that allows users to select a value from a range by sliding a handle along a track.
- Ideal for settings like volume,
 brightness, and price ranges.
- You should Defines the range of values: min and max.

```
Slider (
     value: sliderValue,
     min: 0,
     max: 100,
     divisions: 10,
     label: sliderValue.round().toString(),
     onChanged: (double value) {
           setState(() {
                 sliderValue = value;
               });
```

DropdownMenu Widget

- A widget for selecting one option from a predefined list.
- You should define the following:
 - value: The current value selected in the dropdown.
 - onChanged: Callback function that updates the selected value.
 - items: List of items to be displayed, mapped to DropdownMenuItem widgets.

DropdownMenu Widget

```
DropdownButton<String>(
 value: dropdownValue,
  icon: Icon (Icons.arrow downward),
  onChanged: (String? newValue) {
    setState(() {
      dropdownValue = newValue!;
    });
  },
  items: <String>['Programming', 'Network', 'Cyber Security']
      .map<DropdownMenuItem<String>>((String value) {
    return DropdownMenuItem<String>(value: value, child: Text(value));}).toList(),
```

Practice

- Make a Registration Form consisting of:
 - Name: TextField.
 - City: DropdownMenu.
 - o Age: Slider.
 - Do you have a driving licence: Radio Buttons (Yes, No).
- When 'Submit' is Clicked, it route the user to ResultScreen which shows the eligibility to drive.