

Passing Data to a New Screen:-

Remember: Screens are just widgets. In this example, create a list of todos. When a todo is tapped, navigate to a new screen (widget) that displays information about the todo.

This recipe uses the following steps:-

Define a todo class.

Display a list of todos.

Create a detail screen that can display information about a todo.

Navigate and pass data to the detail screen.

1. Define a todo class:-

```
class Todo {  
  final String title;  
  final String description;  
  
  const Todo(this.title, this.description);  
}
```

2. Create a list of todos:-

```
final todos = List.generate(  
  20,  
  (i) => Todo(  
    'Todo $i',  
    'A description of what needs to be done for Todo $i',  
  ),  
);
```

3. Create a Todo screen to display the list

```
class TodosScreen extends StatelessWidget {  
  // Requiring the list of todos.  
  const TodosScreen({super.key, required this.todos});  
  
  final List<Todo> todos;  
  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      appBar: AppBar(  
        title: const Text('Todos'),  
      ),  
      //passing in the ListView.builder  
      body: ListView.builder(  
        itemCount: todos.length,  
        itemBuilder: (context, index) {  
          return ListTile(  
            title: Text(todos[index].title),  
          );  
        },  
      ),  
    );  
  }  
}
```

4. Create a detail screen to display information about a todo:-

```
class DetailScreen extends StatelessWidget {  
  // In the constructor, require a Todo.  
  const DetailScreen({super.key, required this.todo});  
  
  // Declare a field that holds the Todo.  
  final Todo todo;  
  
  @override  
  Widget build(BuildContext context) {  
    // Use the Todo to create the UI.  
    return Scaffold(  
      appBar: AppBar(  
        title: Text(todo.title),  
      ),  
      body: Padding(  
        padding: const EdgeInsets.all(16.0),  
        child: Text(todo.description),  
      ),  
    );  
  }  
}
```

5. Navigate and pass data to the detail screen:-

```
body: ListView.builder(  
  itemCount: todos.length,  
  itemBuilder: (context, index) {  
    return ListTile(  

```

```
title: Text(todos[index].title),  
  
// When a user taps the ListTile, navigate to the DetailScreen.  
  
// Notice that you're not only creating a DetailScreen, you're  
// also passing the current todo through to it.  
onTap: () {  
  Navigator.push(  
    context,  
    MaterialPageRoute(  
      builder: (context) => DetailScreen(todo: todos[index]),  
    ),  
  );  
},  
);  
},  
),
```