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1 // PRACTICAL-6: Develop a flutter app with following functionalities: Display list of currently running semester-
  division name of your college using ListView.separated( ). On tap of semester-division, display list of students
  studying in that class using ListView.builder().
2
3 // Name: Angat Nayanbhai Shah
4 // Enrollment No: 202203103510097
5 // Branch: B.Tech Computer Science and Engineering
6
7 // CODE:
8
9 import 'package:flutter/material.dart';
10 void main() {
11   runApp(MyApp());
12 }
13 class MyApp extends StatelessWidget {
14   @override
15   Widget build(BuildContext context) {
16     return MaterialApp(
17       title: 'Semester Divisions',
18       theme: ThemeData(primarySwatch: Colors.blue),
19       home: SemesterDivisionList(),
20       debugShowCheckedModeBanner: false,
21     );
22   }
23   class SemesterDivisionList extends StatelessWidget {
24     final List<String> semesterDivisions = [
25       'Semester 5 - Division A',
26       'Semester 5 - Division B',
27       'Semester 5 - Division C',
28       'Semester 5 - Division D', ];
29     @override
30     Widget build(BuildContext context) {
31       return Scaffold(
32         appBar: AppBar(title: Text('PRACTICAL 6')),
33         body: Column(
34           children: [
35             Expanded(
36               child: ListView.separated(
37                 itemCount: semesterDivisions.length,
38                 separatorBuilder: (context, index) => Divider(),
39                 itemBuilder: (context, index) {
40                   return ListTile(
41                     title: Text(semesterDivisions[index]),
42                     onTap: () {
43                       Navigator.push(
44                         context,
45                         MaterialPageRoute(
46                           builder: (context) =>
47                             StudentList(semesterDivisions[index]),
48                       ),
49                     );
50                   },
51                 );
52               },
53             ),
54             Spacer(),
55             Padding(

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57 padding: const EdgeInsets.all(16.0),
58 child: Text(
59   '202203103510097',
60   style: TextStyle(
61     fontSize: 14,
62     color: Colors.grey,
63   ),
64   textAlign: TextAlign.center,
65 ),
66 ),
67 ],
68 ),
69 );
70 }
71 }
72 class StudentList extends StatelessWidget {
73   final String semesterDivision;
74   StudentList(this.semesterDivision);
75   final Map<String, List<String>> students = {
76     'Semester 5 - Division A': ['WALTER WHITE', 'GUSTAVO FRING'],
77     'Semester 5 - Division B': ['HARVEY SPECTER', 'MIKE ROSS'],
78     'Semester 5 - Division C': ['SPIDER', 'RAGE KLAUS'],
79     'Semester 5 - Division D': ['BARRY ALLEN', 'HARRISON WELLS'],
80   };
81   @override
82   Widget build(BuildContext context) {
83     final studentList = students[semesterDivision] ?? [];
84     return Scaffold(
85       appBar: AppBar(title: Text(semesterDivision)),
86       body: Column(
87         children: [
88           Expanded(
89             child: ListView.builder(
90               itemCount: studentList.length,
91               itemBuilder: (context, index) {
92                 return ListTile(
93                   title: Text(studentList[index]),
94                 );
95               },
96             ),
97           ),
98           Spacer(),
99           Padding(
100             padding: const EdgeInsets.all(16.0),
101             child: Text(
102               '202203103510097',
103               style: TextStyle(
104                 fontSize: 14,
105                 color: Colors.grey,
106               ),
107               textAlign: TextAlign.center,
108             ),
109           ),
110         ],
111       ),
112     );
113   }
114 }

```