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1 // PRACTICAL-8: Develop flutter app with a Text, a TextField, and an ElevatedButton displaying text "Save".
  Display the greetings message in Text widget by retrieving username from shared preference. On tap of the
  ElevatedButton, save the username (from TextField) in shared preference.
2
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5 // Branch: B.Tech Computer Science and Engineering
6
7 // CODE:
8
9 import 'package:flutter/material.dart';
10 import 'package:shared_preferences/shared_preferences.dart';
11
12 void main() {
13   runApp(MyApp());
14 }
15 class MyApp extends StatelessWidget {
16   @override
17   Widget build(BuildContext context) {
18     return MaterialApp(
19       home: HomeScreen(),
20       debugShowCheckedModeBanner: false, // To remove the debug banner
21     );
22   }
23 }
24 class HomeScreen extends StatefulWidget {
25   @override
26   _HomeScreenState createState() => _HomeScreenState();
27 }
28 class _HomeScreenState extends State<HomeScreen> {
29   final TextEditingController _usernameController = TextEditingController();
30   String _greetingMessage = 'Hello, USER!';
31
32   @override
33   void initState() {
34     super.initState();
35     _loadUsername();
36   }
37   void _loadUsername() async {
38     SharedPreferences prefs = await SharedPreferences.getInstance();
39     String? savedUsername = prefs.getString('username');
40     if (savedUsername != null) {
41       setState() {
42         _greetingMessage = 'Hello, $savedUsername!';
43       });
44     }
45   }
46   void _saveUsername() async {
47     String username = _usernameController.text;
48     SharedPreferences prefs = await SharedPreferences.getInstance();
49     await prefs.setString('username', username);
50     setState() {
51       _greetingMessage = 'Hello, $username!';
52     });
53   }
54   @override
55   Widget build(BuildContext context) {
56     return Scaffold(
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57 appBar: AppBar(
58   title: Text('PRACTICAL 8'),
59 ),
60 body: Center( // Center the entire content
61   child: Column(
62     mainAxisAlignment: MainAxisAlignment.center, // Vertically center the content
63     children: [
64       Text(
65         _greetingMessage,
66         style: TextStyle(fontSize: 24),
67       ),
68       Padding(
69         padding: const EdgeInsets.all(16.0),
70         child: TextField(
71           controller: _usernameController,
72           decoration: InputDecoration(
73             labelText: 'Enter Your Username',
74             border: OutlineInputBorder(),
75           ),
76         ),
77       ),
78       ElevatedButton(
79         onPressed: _saveUsername,
80         child: Text('Save'),
81       ),
82       Spacer(),
83       Footer(), // Footer with enrollment number
84     ],
85   ),
86 ),
87 );
88 }
89 }
90 class Footer extends StatelessWidget {
91   @override
92   Widget build(BuildContext context) {
93     return Padding(
94       padding: const EdgeInsets.all(16.0),
95       child: Text(
96         '202203103510097',
97         style: TextStyle(
98           fontSize: 14,
99           color: Colors.grey,
100        ),
101        textAlign: TextAlign.center,
102      ),
103    );
104  }
105 }

```