

ADVANCE PYTHON PROGRAMMING (ETH)

WEBSITE- FLUTTER

G REENA SRI

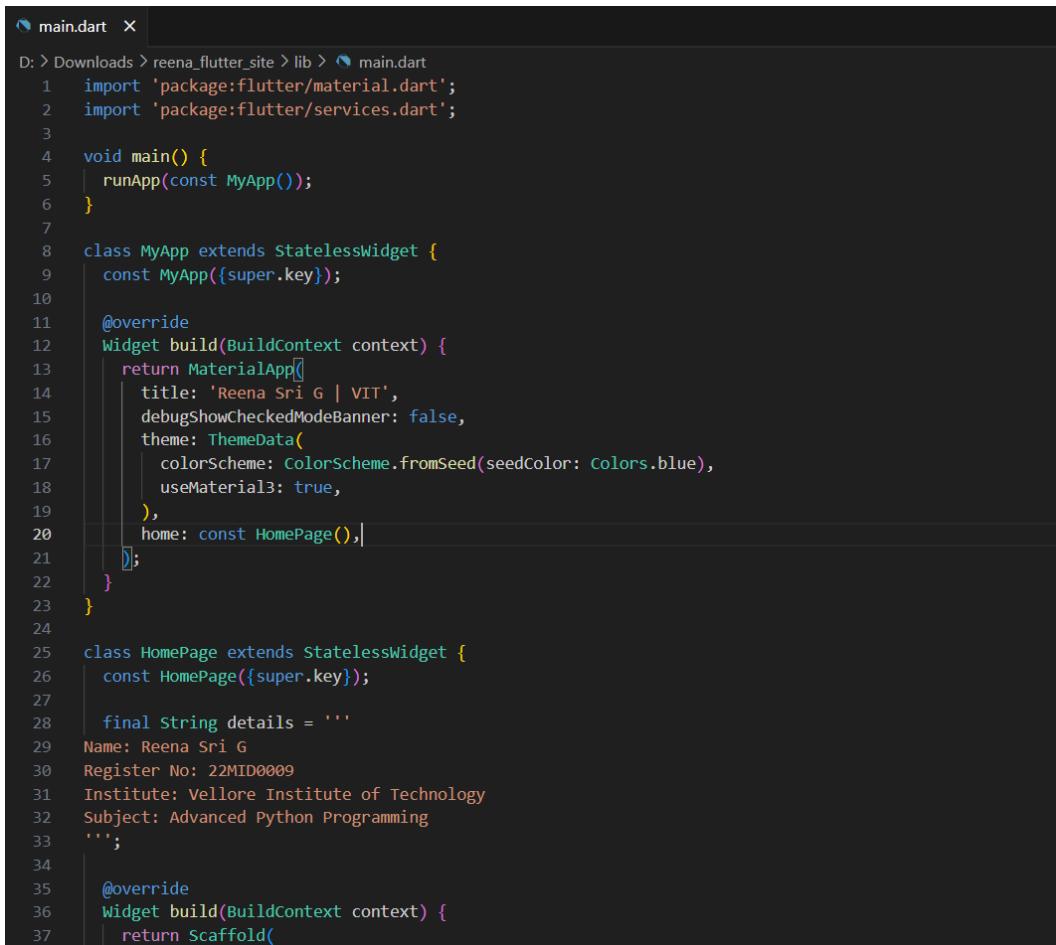
22MID0009

05-11-2025

STEPS:

- Install flutter
- Open the folder in terminal
- Flutter devices
- Flutter run -d chrome

SCREENSHOTS:



The screenshot shows a code editor window with the file 'main.dart' open. The code is written in Dart and defines a simple Flutter application. It imports necessary packages, defines a main function that runs an instance of MyApp, and defines the MyApp class as a StatelessWidget that returns a MaterialApp with a specific theme and a HomePage as its initial screen. The HomePage class is also defined as a StatelessWidget that returns a Scaffold. The code includes comments and some placeholder text for details.

```
main.dart  X
D: > Downloads > reena_flutter_site > lib > main.dart
1 import 'package:flutter/material.dart';
2 import 'package:flutter/services.dart';
3
4 void main() {
5   runApp(const MyApp());
6 }
7
8 class MyApp extends StatelessWidget {
9   const MyApp({super.key});
10
11   @override
12   Widget build(BuildContext context) {
13     return MaterialApp(
14       title: 'Reena Sri G | VIT',
15       debugShowCheckedModeBanner: false,
16       theme: ThemeData(
17         colorScheme: ColorScheme.fromSeed(seedColor: Colors.blue),
18         useMaterial3: true,
19       ),
20       home: const HomePage(),
21     );
22   }
23 }
24
25 class HomePage extends StatelessWidget {
26   const HomePage({super.key});
27
28   final String details = '''
29   Name: Reena Sri G
30   Register No: 22MID0009
31   Institute: Vellore Institute of Technology
32   Subject: Advanced Python Programming
33   ''';
34
35   @override
36   Widget build(BuildContext context) {
37     return Scaffold(
```

```
35  @override
36  Widget build(BuildContext context) {
37    return Scaffold(
38      backgroundColor: Colors.white,
39      body: Center(
40        child: Container(
41          padding: const EdgeInsets.all(32),
42          constraints: const BoxConstraints(maxWidth: 500),
43          decoration: BoxDecoration(
44            color: Colors.blue.shade50,
45            borderRadius: BorderRadius.circular(20),
46            boxShadow: [
47              BoxShadow(
48                color: Colors.blue.withOpacity(0.2),
49                blurRadius: 20,
50                offset: const Offset(0, 10),
51              ),
52            ],
53          ),
54        child: Column(
55          mainAxisAlignment: MainAxisAlignment.min,
56          children: [
57            const Text(
58              'Student Info',
59              style: TextStyle(
60                color: Colors.blueAccent,
61                fontSize: 26,
62                fontWeight: FontWeight.bold,
63              ),
64            ),
65            const SizedBox(height: 20),
66            InfoRow(title: 'Name', value: 'Reena Sri G'),
67            InfoRow(title: 'Register No', value: '22MID0009'),
68            InfoRow(
69              title: 'Institute',
70              value: 'Vellore Institute of Technology',
71            ),
72            InfoRow(title: 'Subject', value: 'Advanced Python Programming'),
73            const SizedBox(height: 30),
74            ElevatedButton.icon(
75              onPressed: () {
76                clipboard.setData(clipboardData(text: details));
77                ScaffoldMessenger.of(context).showSnackBar(
78                  const SnackBar(
79                    content: Text('Copied to clipboard!'),
80                    duration: Duration(seconds: 1),
81                  ),
82                );
83              },
84              icon: const Icon(Icons.copy),
85              label: const Text('Copy Details'),
86              style: ElevatedButton.styleFrom(
87                backgroundColor: Colors.blueAccent,
88                foregroundColor: Colors.white,
89                padding: const EdgeInsets.symmetric(
90                  horizontal: 24,
91                  vertical: 14,
92                ),
93                shape: RoundedRectangleBorder(
94                  borderRadius: BorderRadius.circular(12),
95                ),
96                textStyle: const TextStyle(
97                  fontSize: 16,
98                  fontWeight: FontWeight.w600,
99                ),
100               ),
101             ).,
```

```

99
100
101
102
103
104
105
106
107
108 }
109
110 class InfoRow extends StatelessWidget {
111   final String title;
112   final String value;
113
114   const InfoRow({super.key, required this.title, required this.value});
115
116   @override
117   Widget build(BuildContext context) {
118     return Padding(
119       padding: const EdgeInsets.symmetric(vertical: 6),
120       child: Row(
121         mainAxisAlignment: MainAxisAlignment.spaceBetween,
122         children: [
123           Text(
124             '$title:',
125             style: const TextStyle(
126               fontWeight: FontWeight.w600,
127               color: Colors.black87,
128               fontSize: 16,
129             ),
130             ),
131           ),
132           Flexible(
133             child: Text(
134               value,
135               textAlign: TextAlign.right,
136               style: const TextStyle(color: Colors.black87, fontSize: 16),
137             ),
138           ],
139         ),
140       );
141     }
142   }
143 }
```

FOLDER:

File Explorer View:

| | Name | Date modified | Type | Size |
|---------------------|------------------------|------------------|---------------------|------|
| Quick access | | | | |
| Desktop | .dart_tool | 04-11-2025 13:31 | File folder | |
| Documents | .idea | 04-11-2025 13:26 | File folder | |
| Downloads | android | 04-11-2025 13:26 | File folder | |
| Pictures | build | 04-11-2025 13:29 | File folder | |
| Anushee | ios | 04-11-2025 13:26 | File folder | |
| Mod2 and 3 | lib | 04-11-2025 13:26 | File folder | |
| mod4 | linux | 04-11-2025 13:26 | File folder | |
| mod6 | macos | 04-11-2025 13:26 | File folder | |
| Screenshots | test | 04-11-2025 13:26 | File folder | |
| OneDrive - Personal | web | 04-11-2025 13:26 | File folder | |
| This PC | windows | 04-11-2025 13:26 | File folder | |
| 3D Objects | | | | |
| Desktop | .gitignore | 04-11-2025 13:26 | Text Document | 1 KB |
| Documents | .metadata | 04-11-2025 13:26 | METADATA File | 2 KB |
| Downloads | analysis_options.yaml | 04-11-2025 13:26 | Yaml Source File | 2 KB |
| | pubspec.lock | 04-11-2025 13:26 | LOCK File | 6 KB |
| | pubspec.yaml | 04-11-2025 13:26 | Yaml Source File | 4 KB |
| | README.md | 04-11-2025 13:26 | Markdown Source ... | 1 KB |
| | reena_flutter_site.iml | 04-11-2025 13:26 | IML File | 1 KB |

TERMINAL EXECUTION:

```
parthi@Panda 05:38 ~
⚡ flutter create reena_flutter_site
Creating project reena_flutter_site...
Resolving dependencies in `reena_flutter_site`...
Downloading packages...
Got dependencies in `reena_flutter_site`.
Wrote 130 files.

All done!
You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
If you prefer video documentation, consider: https://www.youtube.com/c/flutterdev

In order to run your application, type:

$ cd reena_flutter_site
$ flutter run

Your application code is in reena_flutter_site/lib/main.dart.
```

Your application code is in reena_flutter_site/lib/main.dart.

```
parthi@Panda 05:38 ~
⚡ cd reena_flutter_site/
parthi@Panda 05:39 ~/reena_flutter_site
⚡ flutter devices
Found 2 connected devices:
  Linux (desktop) • linux • linux-x64      • Debian GNU/Linux 13 (trixie)
  6.12.48+deb13-amd64
  Chrome (web)    • chrome • web-javascript • Chromium 141.0.7390.122 built on Debian
  GNU/Linux 13 (trixie)

Run "flutter emulators" to list and start any available device emulators.
```

If you expected another device to be detected, please run "flutter doctor" to diagnose potential issues. You may also try increasing the time to wait for connected devices with the "--device-timeout" flag. Visit <https://flutter.dev/setup/> for troubleshooting tips.

```
parthi@Panda 05:39 ~/reena_flutter_site
⚡ flutter run -d chrome
Launching lib/main.dart on Chrome in debug mode...
Waiting for connection from debug service on Chrome...          16.6s
This app is linked to the debug service: ws://127.0.0.1:40351/L2SI4rG2G0A=/ws
Debug service listening on ws://127.0.0.1:40351/L2SI4rG2G0A=/ws

Flutter run key commands.
r Hot reload. 🔥🔥
R Hot restart.
h List all available interactive commands.
d Detach (terminate "flutter run" but leave application running).
c Clear the screen
q Quit (terminate the application on the device).
```

A Dart VM Service on Chrome is available at: http://127.0.0.1:40351/L2SI4rG2G0A=
Starting application from main method in: org-dartlang-app:/web_entrypoint.dart.
The Flutter DevTools debugger and profiler on Chrome is available at:
http://127.0.0.1:9100?uri=http://127.0.0.1:40351/L2SI4rG2G0A=

OUTPUT;

