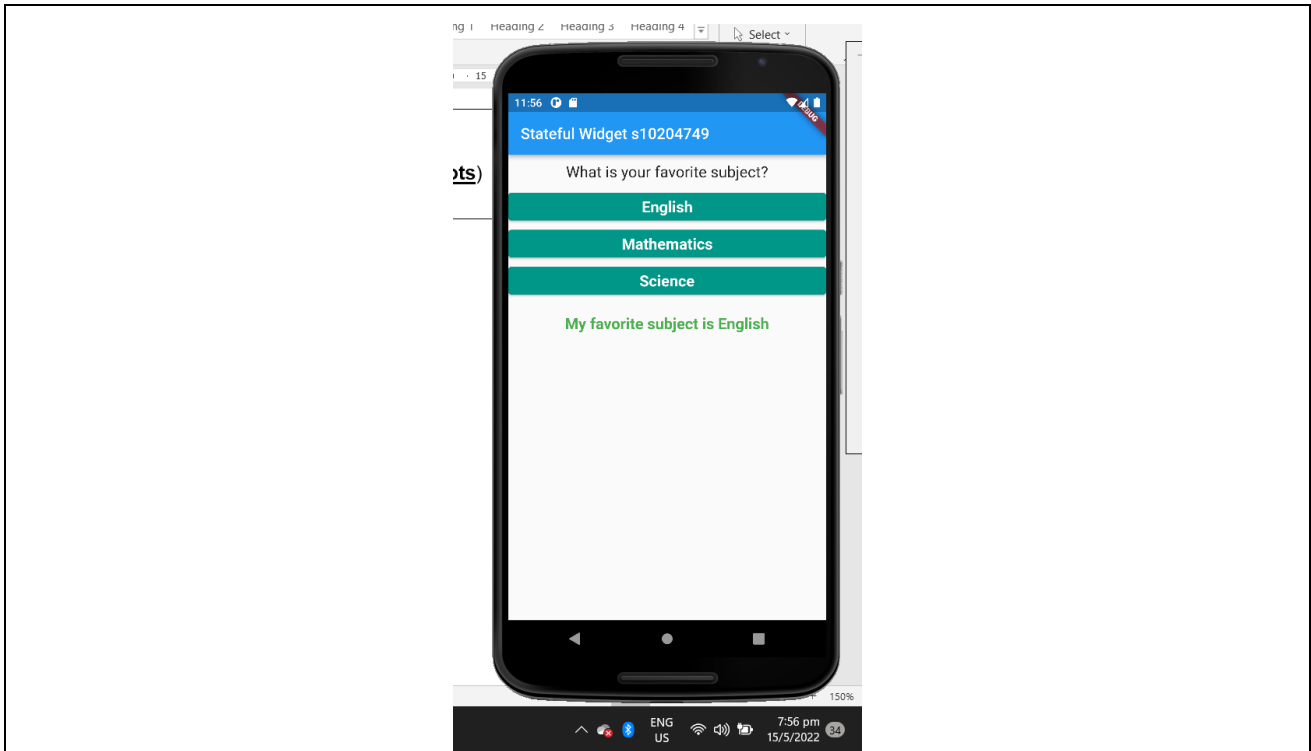MOBILE APPLICATION PROGRAMMING (MAPG)

Lab 7 Stateful Widget

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1. Exercise 1:

1) Paste the screenshot of the layout here:

2) **Paste (Ctrl + V)** the codes of main.dart file here. (**Note: Do not paste the screenshots**)

```dart
import 'package:flutter/material.dart';

void main() => runApp(const MyApp());

class MyApp extends StatefulWidget {
  const MyApp({Key? key}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    return MyAppState();
  }
}

class MyAppState extends State<MyApp> {
  var subject = 'English';

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
```

```
          appBar: AppBar(
            title: const Text('Stateful Widget s10204749'),
          ),
          body: Column(
            crossAxisAlignment: CrossAxisAlignment.stretch,
            children: <Widget>[
              Container(
                width: double.infinity,
                margin: const EdgeInsets.all(10),
                child: const Text(
                  'What is your favorite subject?',
                  style: TextStyle(fontSize: 20),
                  textAlign: TextAlign.center,
                ),
              ),
              ElevatedButton(
                style: ElevatedButton.styleFrom(
                  primary: Colors.teal,
                  onPrimary: Colors.white,
                ),
                onPressed: () {
                  setState(() {
                    subject = 'English';
                  });
                },
                child: const Text(
                  'English',
                  style: TextStyle(
                    fontSize: 20,
                    fontWeight: FontWeight.bold,
                  ),
                ),
              ),
              ElevatedButton(
                style: ElevatedButton.styleFrom(
                  primary: Colors.teal,
                  onPrimary: Colors.white,
                ),
                onPressed: () {
                  setState(() {
                    subject = 'Mathematics';
                  });
                },
                child: const Text(
                  'Mathematics',
                  style: TextStyle(
                    fontSize: 20,
                    fontWeight: FontWeight.bold,
                  ),
                ),
              ),
              ElevatedButton(
                style: ElevatedButton.styleFrom(
                  primary: Colors.teal,
                  onPrimary: Colors.white,
                ),
                onPressed: () {
                  setState(() {
                    subject = 'Science';
                  });
                },
```

```
              child: const Text(
                'Science',
                style: TextStyle(
                  fontSize: 20,
                  fontWeight: FontWeight.bold,
                ),
              ),
            ),
          Container(
            // width: double.infinity,
            margin: const EdgeInsets.all(20),
            alignment: Alignment.center,
            child: Text(
              'My favorite subject is ' + subject,
              style: TextStyle(
                fontSize: 20,
                fontWeight: FontWeight.bold,
                color: Colors.green,
              ),
            ),
          ), // TEXT must be inside the widget
        ],
      ),
    ),
  );
}
}
```

End of Exercise