Lab Report

Course Code: CSE 335

Course Name: Pervasive Computing and Mobile App Development Lab

Lab Report No: 03

Lab Report Name : Flutter widgets

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Submitted To :

Tasmim Sultana

Lecturer

Department of CSE

Daffodil International University

Submitted By:

Name: Rayhan Rafin

ID: 213-15-4278

Section: 60_B1

Code

Code-01:

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

void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: Text('Rayhan(213-15-4278)'),
          backgroundColor: Colors.cyan,
        ),
        body: Center(
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: [
              InkWell(
                onTap: () {
                  print('Container tapped');
                },
                child: Container(
                  margin: EdgeInsets.all(16.0),
                  padding: EdgeInsets.all(8.0),
                  decoration: BoxDecoration(
                    color: Colors.blue,
                  ),
                  child: Text(
                    'I am a container',
                    style: TextStyle(
                      color: Colors.white,
                      fontSize: 24.0,
                    ),
                  ),
                ),
              ),
              OutlinedButton(
                onPressed: () {
                  print('Addition: ${234 + 111}');
```

```
              },
              child: Text('Add'),
            ),
            OutlinedButton(
              onPressed: () {
                print('Subtraction: ${234 - 111}');
              },
              child: Text('Subtract'),
            ),
            OutlinedButton(
              onPressed: () {
                print('Multiplication: ${234 * 111}');
              },
              child: Text('Multiply'),
            ),
          ],
        ),
      ),
    ),
  );
}
}
```
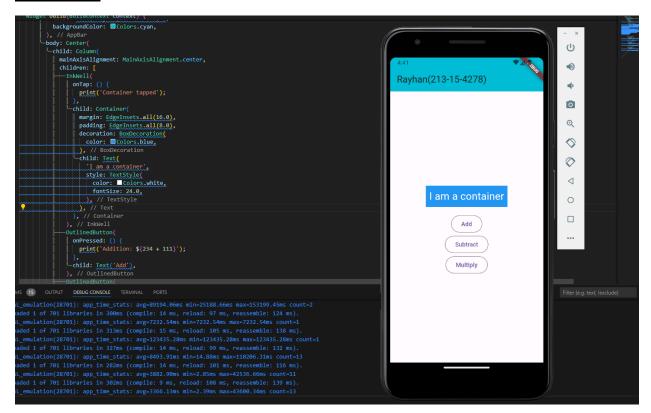
Code-02:

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

void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      theme: ThemeData(
        primarySwatch: Colors.cyan,
        visualDensity: VisualDensity.adaptivePlatformDensity,
      ),
      home: Scaffold(
        appBar: AppBar(
          title: Text('Rayhan(213-15-4278)'),
        ),
        body: Center(
```

```dart
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          InkWell(
            onTap: () {
              print('Container tapped');
            },
            child: Container(
              margin: EdgeInsets.all(16.0),
              padding: EdgeInsets.all(8.0),
              decoration: BoxDecoration(
                color: Colors.blue,
              ),
              child: Text(
                'I am a container',
                style: TextStyle(
                  color: Colors.white,
                  fontSize: 24.0,
                ),
              ),
            ),
          ),
          Row(
            mainAxisAlignment: MainAxisAlignment.spaceEvenly,
            children: [
              OutlinedButton(
                onPressed: () {
                  print('Addition: ${234 + 111}');
                },
                child: Text('Add'),
              ),
              OutlinedButton(
                onPressed: () {
                  print('Subtraction: ${234 - 111}');
                },
                child: Text('Subtract'),
              ),
              OutlinedButton(
                onPressed: () {
                  print('Multiplication: ${234 * 111}');
                },
                child: Text('Multiply'),
              ),
            ],
          ),
```

```
                ],
            ),
        ),
    ),
  );
  }
}
```

Output

Output-01:

```
widget build(BuildContext context) {
        backgroundColor: Colors.cyan,
      ), // AppBar
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            InkWell(
              onTap: () {
                print('Container tapped');
              },
              child: Container(
                margin: EdgeInsets.all(16.0),
                padding: EdgeInsets.all(8.0),
                decoration: BoxDecoration(
                  color: Colors.blue,
                ), // BoxDecoration
                child: Text(
                  'I am a container',
                  style: TextStyle(
                    color: Colors.white,
                    fontSize: 24.0,
                  ), // TextStyle
                ), // Text
              ), // Container
            ), // InkWell
            OutlinedButton(
              onPressed: () {
                print('Addition: ${234 + 111}');
              },
              child: Text('Add'),
            ), // OutlinedButton
            OutlinedButton
```

```
MS  15    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS
L_emulation(28701): app_time_stats: avg=89194.06ms min=25188.66ms max=153199.45ms count=2
aded 1 of 701 libraries in 300ms (compile: 14 ms, reload: 97 ms, reassemble: 124 ms).
L_emulation(28701): app_time_stats: avg=7232.54ms min=7232.54ms max=7232.54ms count=1
aded 1 of 701 libraries in 313ms (compile: 15 ms, reload: 105 ms, reassemble: 138 ms).
L_emulation(28701): app_time_stats: avg=123435.28ms min=123435.28ms max=123435.28ms count=1
aded 1 of 701 libraries in 327ms (compile: 14 ms, reload: 99 ms, reassemble: 132 ms).
L_emulation(28701): app_time_stats: avg=8493.91ms min=14.88ms max=110206.31ms count=13
aded 1 of 701 libraries in 282ms (compile: 14 ms, reload: 101 ms, reassemble: 116 ms).
L_emulation(28701): app_time_stats: avg=3882.90ms min=2.85ms max=42536.66ms count=11
aded 1 of 701 libraries in 302ms (compile: 9 ms, reload: 108 ms, reassemble: 139 ms).
L_emulation(28701): app_time_stats: avg=3366.13ms min=2.39ms max=43600.34ms count=13
```

4:41
Rayhan(213-15-4278)

I am a container

Add

Subtract

Multiply

Filter (e.g. text, !exclude)

Output-02:

```
lib >  main.dart >  MyApp >  build                          ≡ Ⅱ ↴ ↓ ↑ ⚡ ↺ ▢ ⊕
   7   class MyApp extends StatelessWidget {
   9     Widget build(BuildContext context) {
  12         primarySwatch: Colors.cyan,
  13         visualDensity: VisualDensity.adaptivePlatformDensity,
  14       ), // ThemeData
  15       └─home: Scaffold(
  16         ├─appBar: AppBar(
  17         │ └─title: Text('Rayhan(213-15-4278)'),
  18         │ ), // AppBar
  19         └─body: Center(
  20           └─child: Column(
  21             │ mainAxisAlignment: MainAxisAlignment.center,
  22             │ children: [
  23             ├──InkWell(
  24             │ │ │ onTap: () {
  25             │ │ │   print('Container tapped');
  26             │ │ │ },
  27             │ │ └─child: Container(
  28             │ │   │ margin: EdgeInsets.all(16.0),
  29             │ │   │ padding: EdgeInsets.all(8.0),
  30             │ │   │ decoration: BoxDecoration(
  31             │ │   │   color: Colors.blue,
  32             │ │   ), // BoxDecoration
  33             │ │   └─child: Text(
  34             │ │     'I am a container',
  35             │ │     style: TextStyle(
  36             │ │       color: Colors.white,
  37             │ │       fontSize: 24.0,
  38             │ │     ), // TextStyle
  39             │ │   ), // Text
  40             │ │ ), // Container
  41             │ ), // InkWell
  42             ├──Row(
  43             │ mainAxisAlignment: MainAxisAlignment.spaceEvenly,
  44             │ children: [
  45             ├──OutlinedButton(
  46             │ │ │ onPressed: () {
  47             │ │ │   print('Addition: ${234 + 111}');
  48             │ │ │ },
  49             │ │ └─child: Text('Add'),
  50             │ │ ), // OutlinedButton
  51 💡         ├──OutlinedButton(
  52             │ │ │ onPressed: () {
  53             │ │ │   print('Subtraction: ${234 - 111}');
  54             │ │ │ },
  55             │ │ └─child: Text('Subtract'),
  56             │ │ ), // OutlinedButton
  57             ├──OutlinedButton(
  58             │ │ │ onPressed: () {
```

Rayhan(213-15-4278)

I am a container

Add   Subtract   Multiply