UNIVERSITI MALAYSIA TERENGGANU

FACULTY OF OCEAN ENGINEERING TECHNOLOGY & INFORMATICS

[CSM3123]

NATIVE MOBILE PROGRAMING

(GROUP 1)

LAB REPORT 3

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[BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONOURS]

SEMESTER I 2023/2024

Task 1

Follow this link for the instructions:

https://developer.android.com/courses/pathways/android-basics-compose-unit-2-pathway-1

Output for Activity 2

Use if/else statement to express

condition Red color

```
Stop
```

```
Slow
```

Yellow color

Green color

```
Go
```

```
Invalid traffic-light color
```

Black color

Use a when statement for mutiple branches

```
Slow
```

```
x is a prime number between 1 and 10.
```

Write more complex condition in a **when** statement

Output for Activity 3

```
Sandra Oh
null
```

Use nullable variable

nullable Int value

```
10
null
```

```
The number of characters in your favorite actor's name is 9.
```

Target platform: JVM Running on

Use the ?: Elvis operator

Output for Activity 4

```
Smart device is turned on.
Smart device is turned off.
```

Define class methods

Define class properties

```
Device name is: Android TV
Smart device is turned on.
Smart device is turned off.
```

```
Android TV is turned on. Speaker volume is set to 2 and channel number is set to 1.
Google Light turned on. The brightness level is 2.
```

Target platform: JVM Running on kotlin v. 1.9.10

Exercise

Output for Activity 5

```
5 quarters
Have a treat!
Have a treat!
Have a treat!
Have a treat!
No treats!
```

Use function types and lambda expressions in Kotlin

Output for Activity 6

```
You have 51 notifications.
Your phone is blowing up! You have 99+ notifications.
```

Target platform

Mobile notifications

Movie-ticket price

```
The movie ticket price for a person aged 5 is $15.
The movie ticket price for a person aged 28 is $25.
The movie ticket price for a person aged 87 is $20.
```

Target platfo

```
27.0 degrees Celsius is 80.60 degrees Fahrenheit.
350.0 degrees Kelvin is 76.85 degrees Celsius.
10.0 degrees Fahrenheit is 260.93 degrees Kelvin.
```

Target platform

Temperature converter

Song catalog

```
We Don't Talk About Bruno, performed by Encanto Cast, was released in 2022.
true
```

Target platform: JVM Run

```
Name: Amanda
Age: 33
Likes to play tennis. Doesn't have a referrer.

Name: Atiqah
Age: 28
Likes to climb. Has a referrer named Amanda, who likes to play tennis.
```

Target platform: JVM Running on kotlin v: 1.9.10

Internet profile

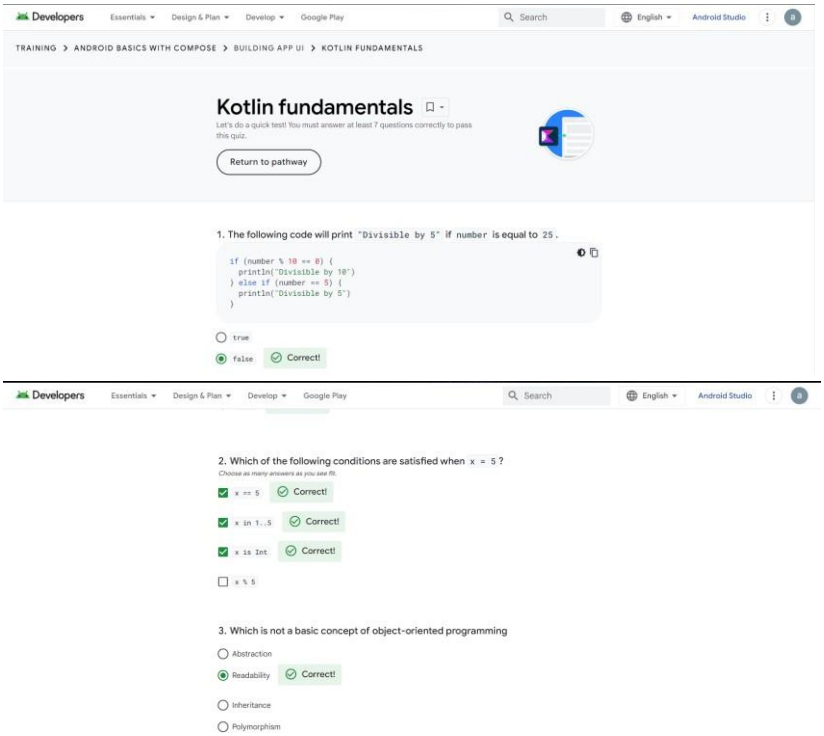
Foldable phones

```
The phone screen's light is off.
The phone screen's light is on.
```

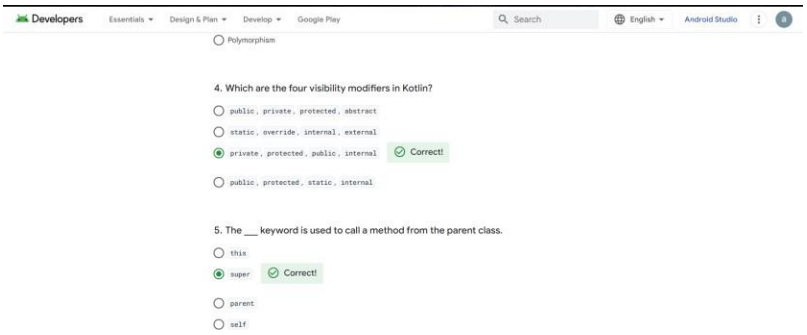
```
Item A is sold at 5000.
Item B is sold at 3000.
```

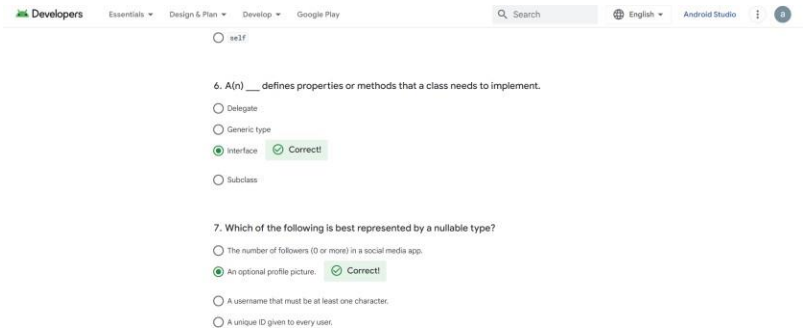
Special auction

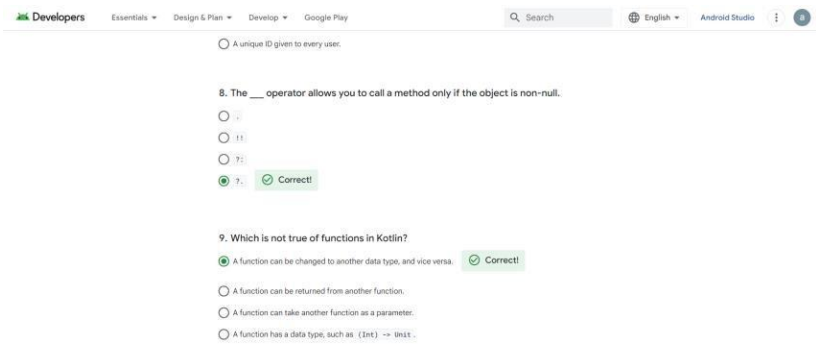
1. Put the github link inside report

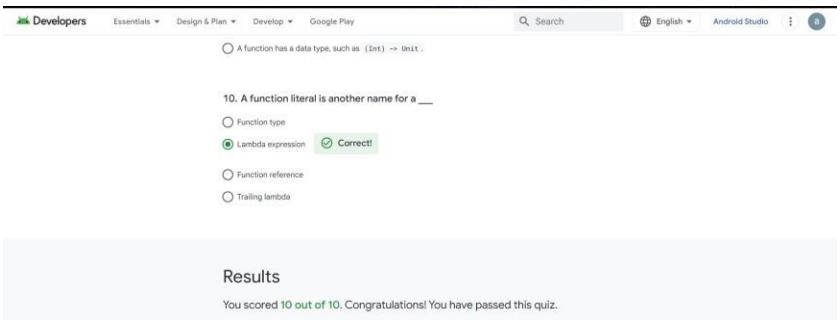


2. Attached together quiz result









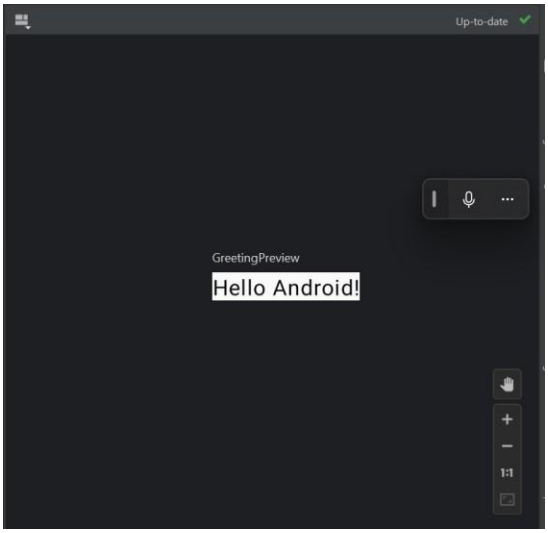
Results

You scored 10 out of 10. Congratulations! You have passed this quiz.

Task 2

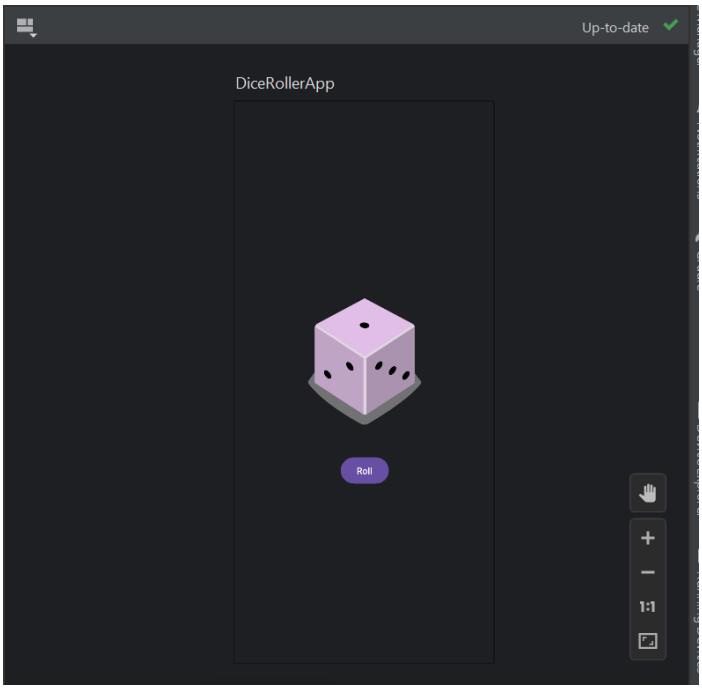
Follow this link for the instruction

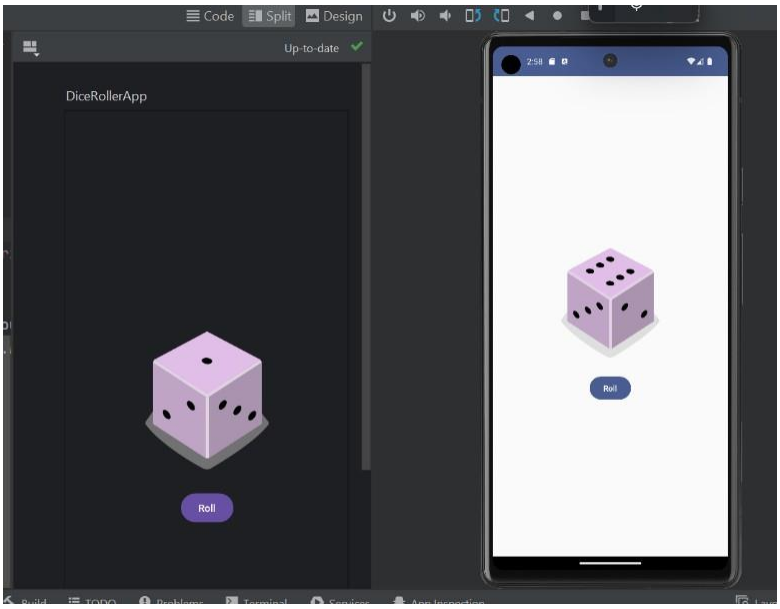
https://developer.android.com/courses/pathways/android-basics-compose-unit-2-pathway-2

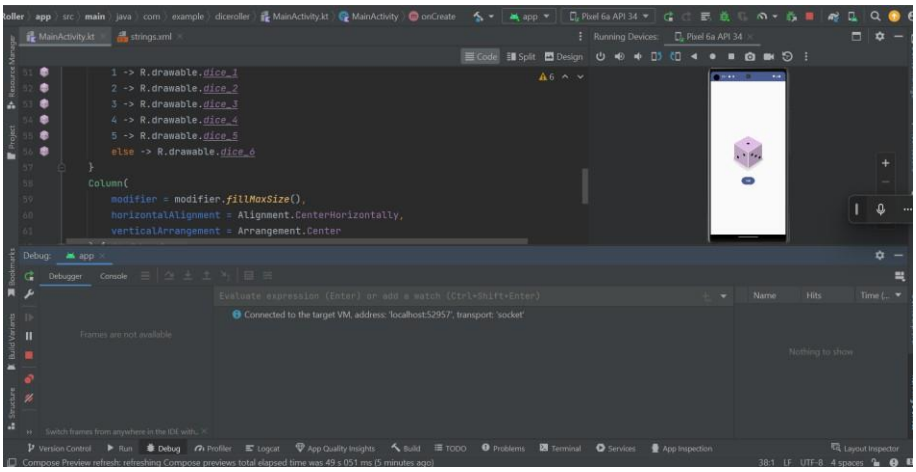


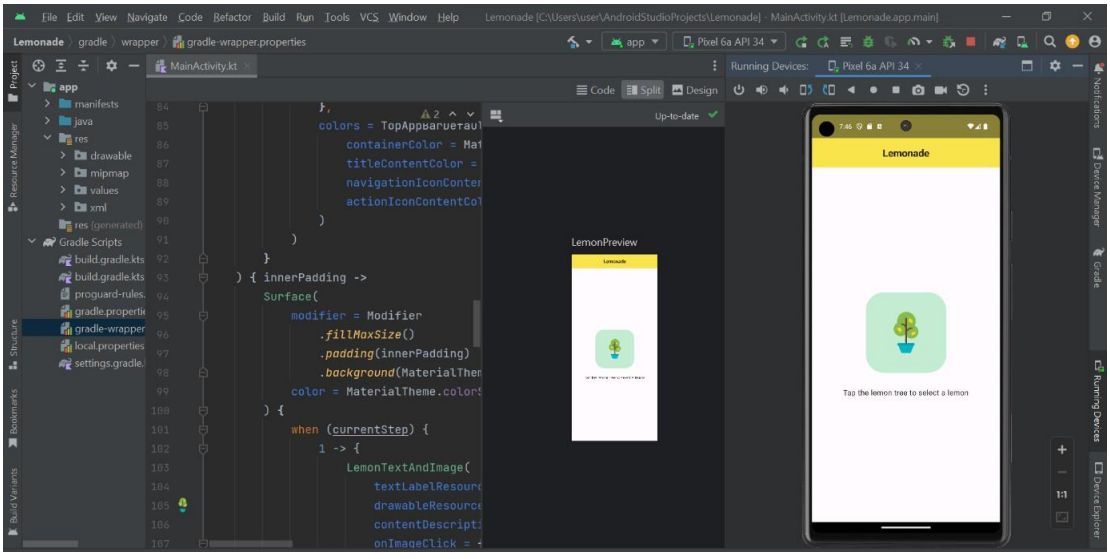
Output for Activity 2

Dice Roller app


Up-to-date
DiceRollerApp
Roll
1:1


Code
Split
Design
Up-to-date
DiceRollerApp
Roll
2:58
Roll



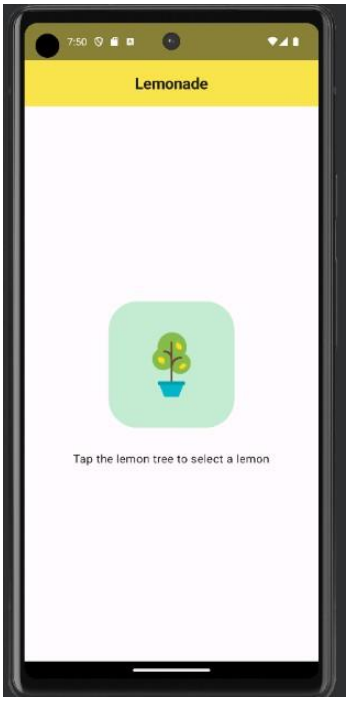


Lemonde

7:47
Lemonade
Keep tapping the lemon to squeeze it

7:48
Lemonade
Tap the lemonade to drink it

7:49
Lemonade
Tap the empty glass to start again


7:50
Lemonade
Tap the lemon tree to select a lemon

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TRAINING > ANDROID BASICS WITH COMPOSE > BUILDING APP UI > ADD A BUTTON

Add a button to an app

Let's do a quick test! You must answer at least 5 questions correctly to pass this quiz.

Return to pathway

1. Use a ___ Composable to display an image

- ○ Button
- ○ Text
- ◉ Image — Correct!
- ○ Icon

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2. `Alignment.Center` centers UI components both horizontally and vertically.

- ◉ True — Correct!
- ○ False

3. Composable functions can store an object in memory using the ___ composable

- ◉ remember — Correct!
- ○ Column
- ○ Modifier
- ○ @Composable

4. The debugger allows you to inspect variables when code execution has been suspended.

- ◉ True — Correct!
- ○ False

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- ○ False

5. By using ___ values in a composable function, variables can be made into observables that schedule a recomposition when their value is changed.

- ○ remember
- ○ Modifier
- ○ @Composable
- ◉ mutableStateOf — Correct!

6. The ___ composable places its children in a vertical sequence.

- ○ Row
- ○ Box
- ◉ Column — Correct!
- ○ Modifier

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7. The ___ debugger feature allows you to navigate back up the call stack.

- ○ Step over
- ◉ Step out — Correct!
- ○ Step into
- ○ Resume program

Results

You scored 7 out of 7. Congratulations! You have passed this quiz.