

Name: PHẠM ĐỨC ĐẠT

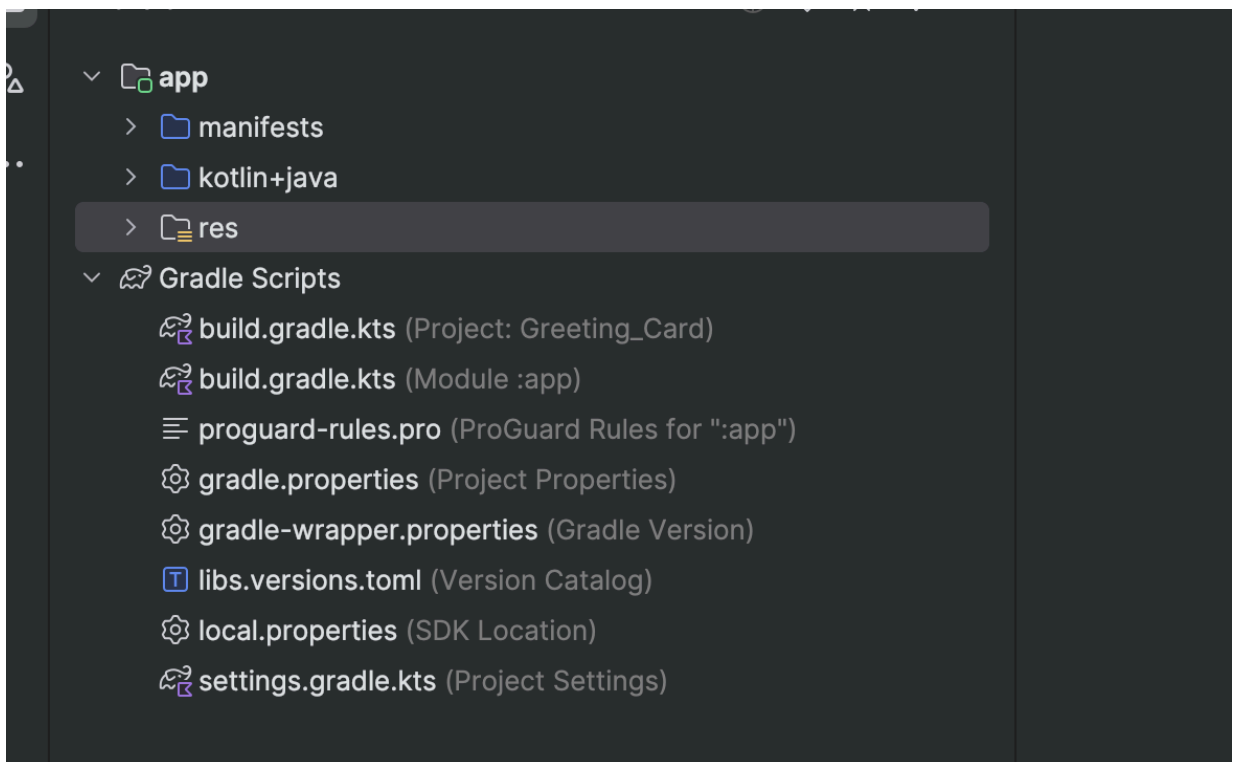
ID STUDENT: ITITIU20184

LAB 01 - Lesson 3: Classes and Objects

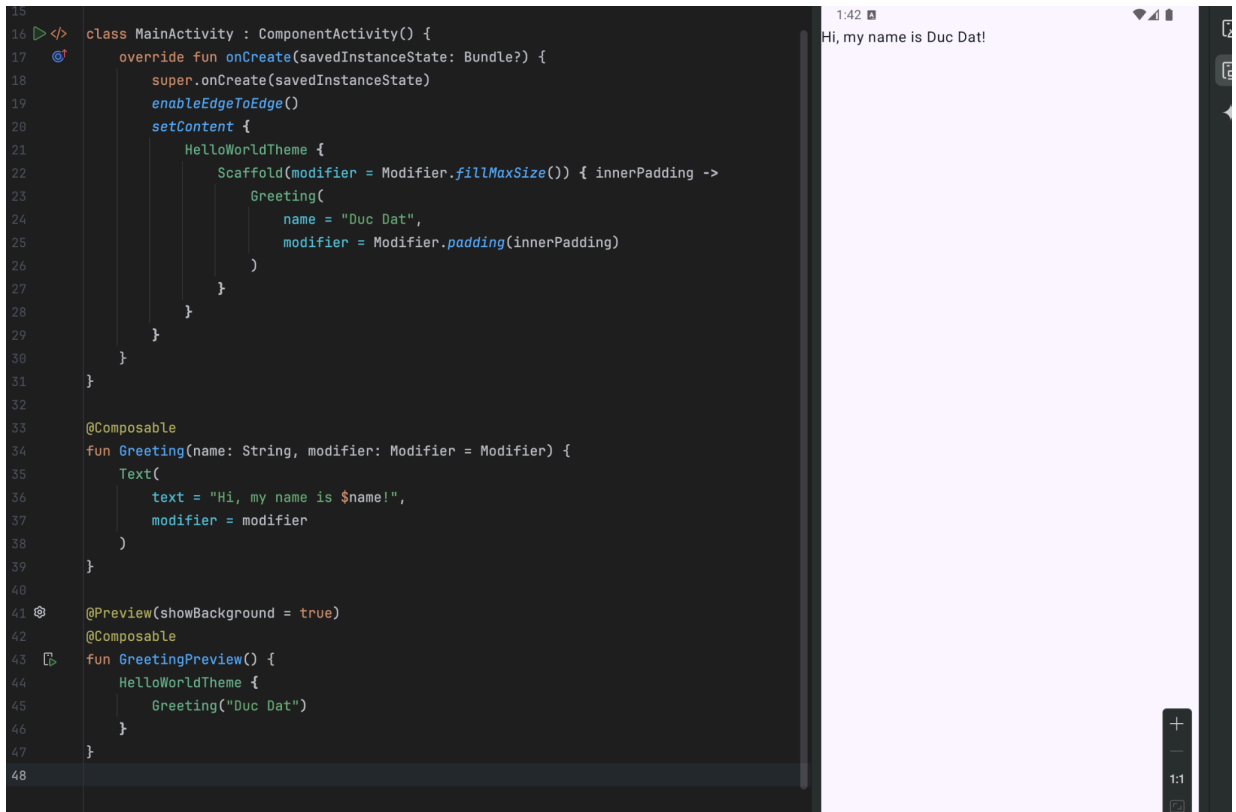
Part 1: Create your first Android app

Create your first Android app

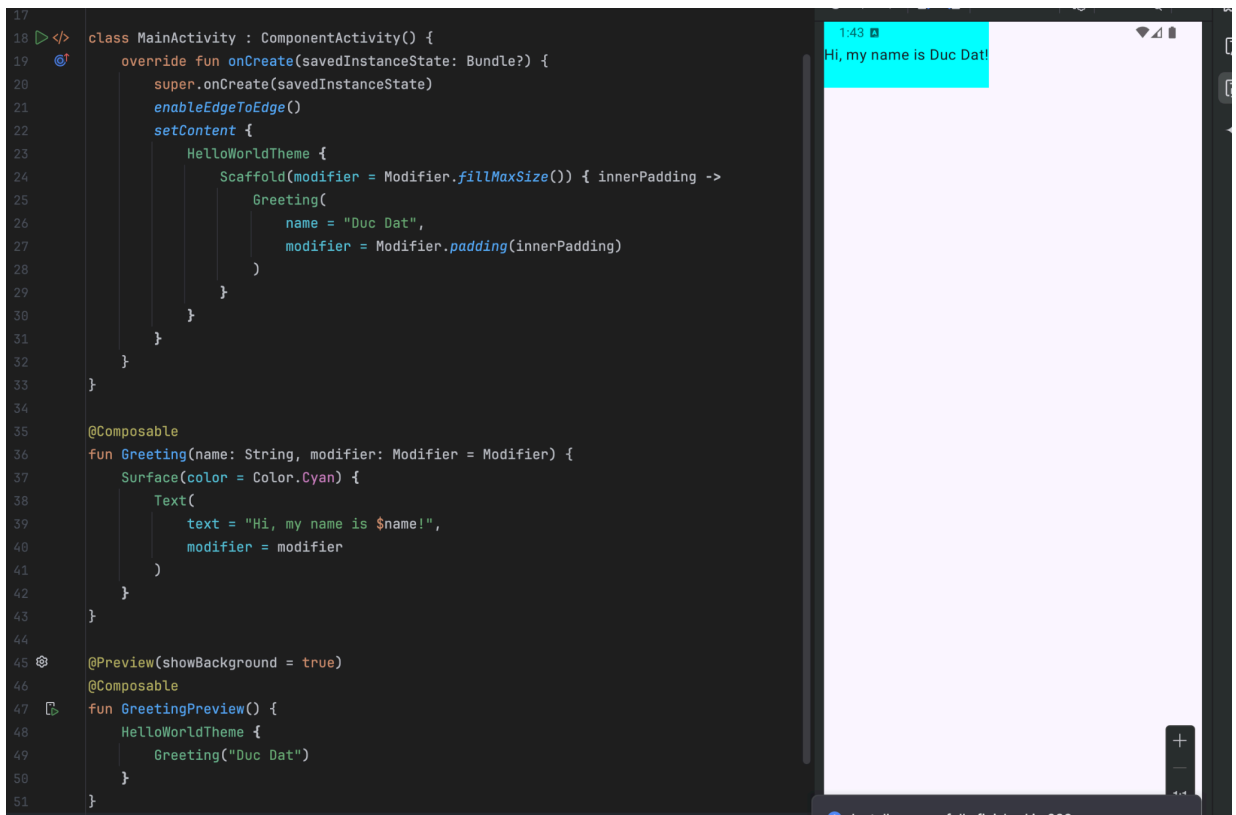
[3. Find project files](#)



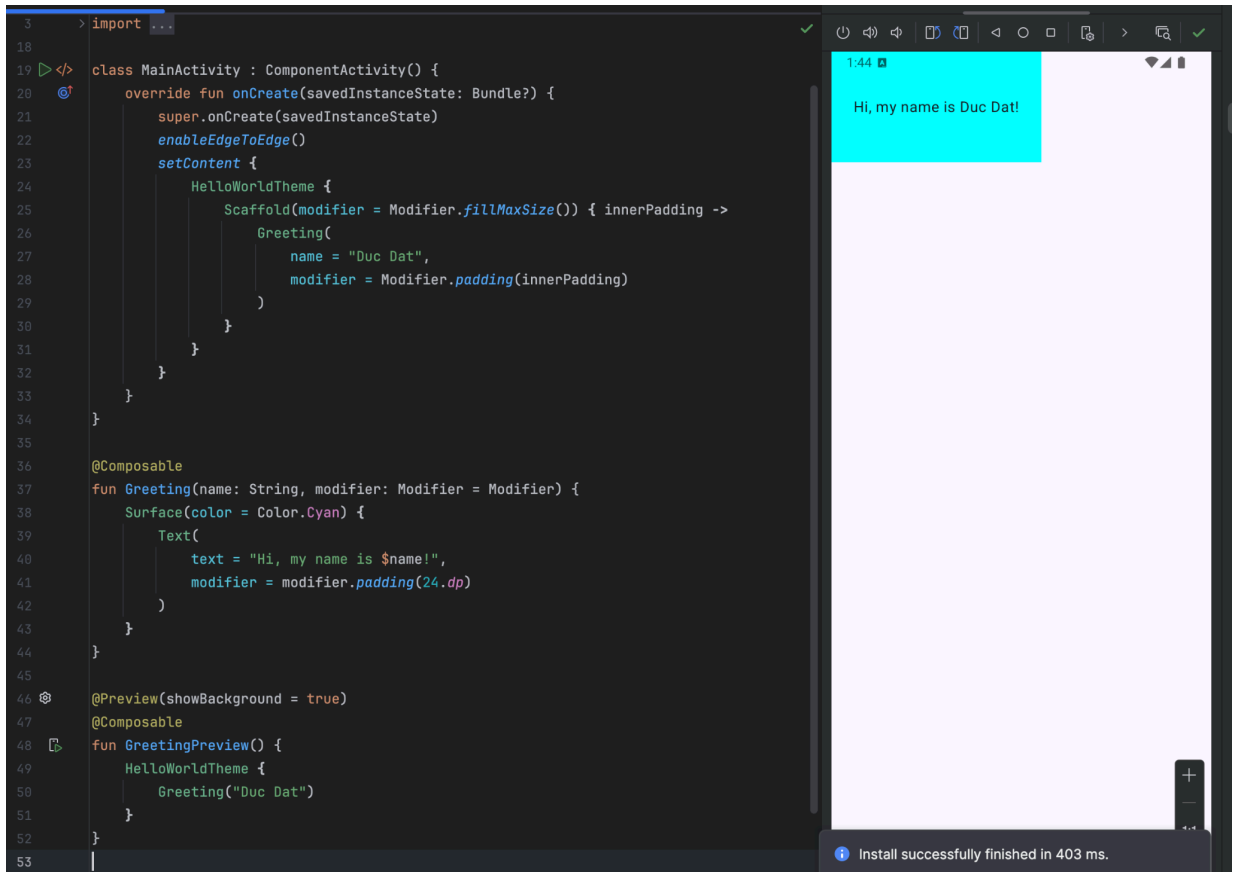
4. Update the text



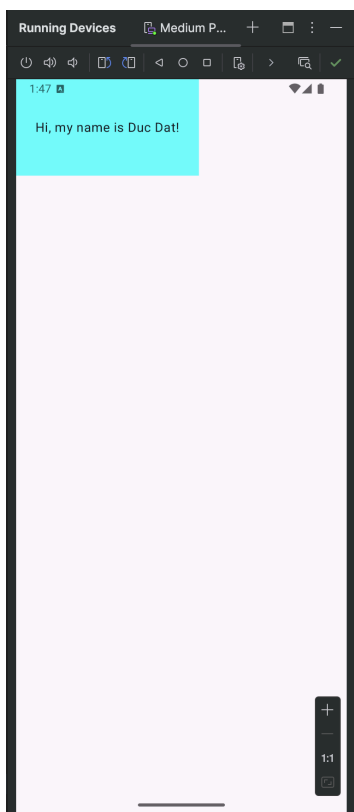
5. Change the background color



6. Add padding



Run your first app on the Android Emulator



QUIZ

1. What does IDE stand for?

☒ Integrated Development Environment

✓ Correct!

☐ Independent Design Environment

☐ Ideal Developer Environment

☐ Intelligent Design Environment

2. Which of the following are advantages of using Android Studio?

Choose as many answers as you see fit.

⊖ Partially Correct.

✓ It can help prevent typos and other mistakes in your code.

✓ Correct!

✓ It comes with a virtual device called an emulator that can run your app.

✓ Correct!

✓ It can show you a real-time preview of how your app will look on-screen while you code.

✓ Correct!

✓ It can automatically translate your app into other languages.

✗ Incorrect.

3. What is the purpose of using a virtual device, or emulator, in Android Studio?

☐ To show a variety of error messages to users

☐ To experiment with app code safely

☒ To test your app on a device without having that physical device

✓ Correct!

☐ To see what your app looks like in a web browser

4. In Android Studio, what is a project template good for?

Choose as many answers as you see fit.

☐ It causes Android Studio to download files faster.

✓ It makes getting started on building a new app faster.

✓ Correct!

✓ It provides a structure that follows best practices.

✓ Correct!

☐ It is the only way to build apps that can be previewed in Android Studio.

✓ It makes building a new app less error-prone by pre-populating the project with some app code.

✓ Correct!

5. How do you create a new project in Android Studio?

- ☐ A. Log out of Android Studio, and navigate to your project folder to find instructions.
- ☐ B. If you have a project already open, select File > New > New Project from the Android Studio menu.
- ☐ C. In the "Welcome to Android Studio" window, click "Start a new Android Studio project."
- ☐ D. Create a new file on your computer, and title it "New Android Studio Project."
- ☒ Both B and C are ways to create a new project in Android Studio. ✓ Correct!
- ☐ None of the above

6. ___ is a function that is used to define a layout in your app using Composable functions.

- ☐ `ComponentActivity()`
- ☐ `onCreate()`
- ☐ `DefaultPreview()`
- ☒ `setContent()` ✓ Correct!

7. A Compose function requires the `@Composable` annotation.

- ☒ True ✓ Correct!
- ☐ False

8. A ___ is a Composable that has a background color and can contain other Composables.

☐ Color

☐ Container

☒ Surface ✓ Correct!

☐ Box

9. Padding is an example of a ___

☐ Property

☐ Composable

☐ Attribute

☒ Modifier ✓ Correct!

10. Which of the following is false about Compose?

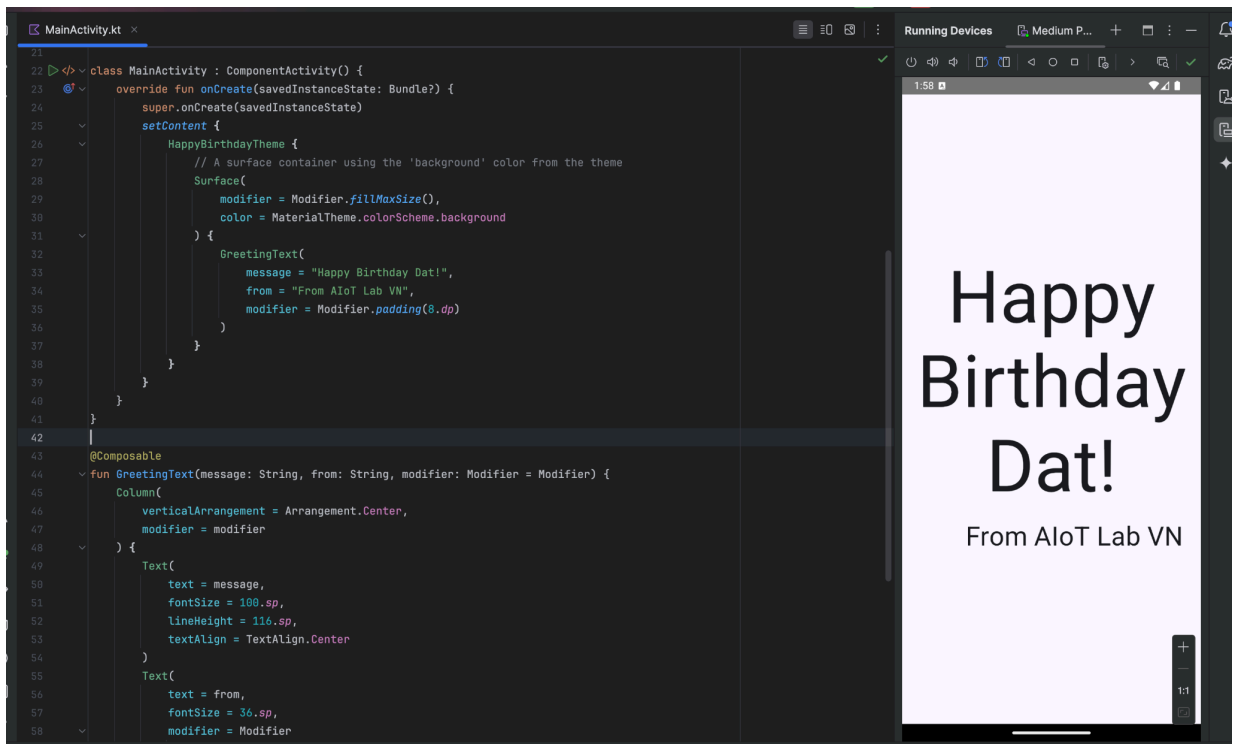
☐ The Empty Compose Activity template is used to create a simple app.

☐ Layouts can be viewed in the Preview window, without actually running your app.

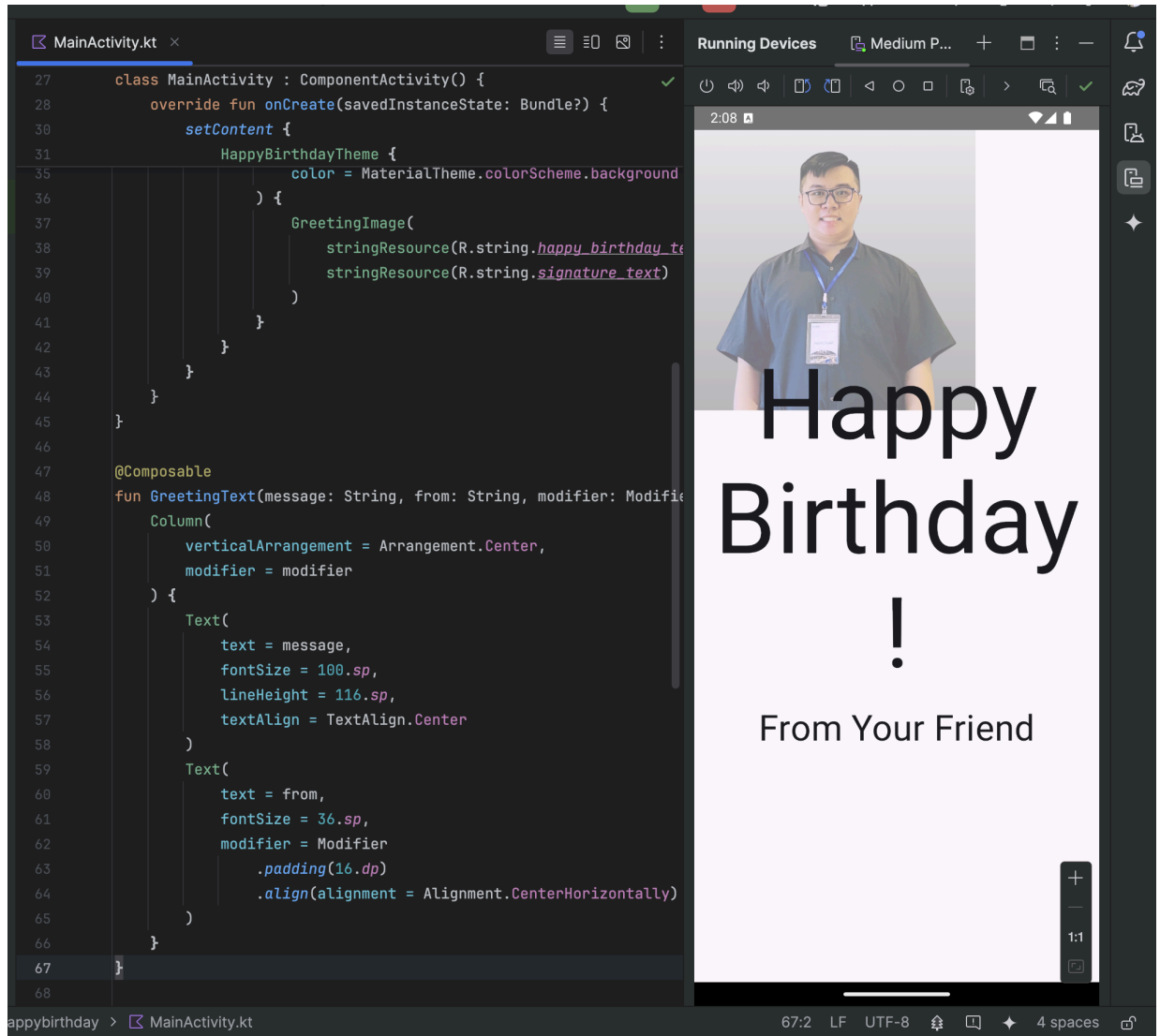
☒ All elements and themes in a Compose app are contained in a Surface. ✓ Correct!

☐ Themes, such as `GreetingCardTheme` allow you to style Composables.

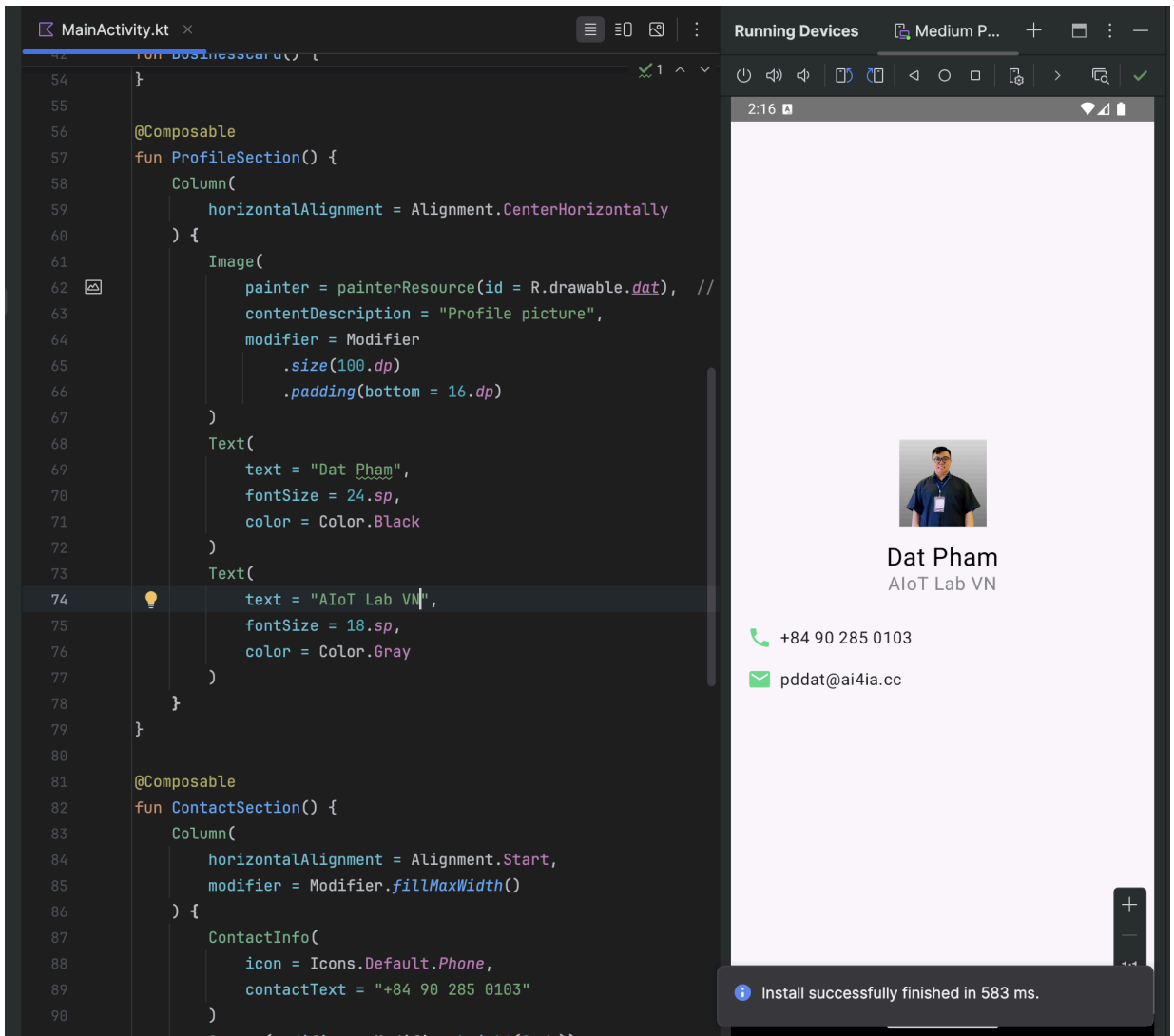
Part 2: Build a basic layout



Add images to your Android app



Project: Create a Business Card app



QUIZ

1. What is Jetpack Compose?

- ☒ A Modern toolkit to develop Android UI ✓ Correct!
- ☐ Toolkit to design libraries
- ☐ Database Interface
- ☐ Plugin to build APK

2. Composable functions are the basic building block of Compose.

- ☒ True ✓ Correct!
- ☐ False

3. What annotation is used to annotate a Composable function?

- ☐ `@Annotation`
- ☐ `@ComposableFunction`
- ☒ `@Composable` ✓ Correct!
- ☐ `@Preview`

4. The basic standard layout elements in Compose are:

Choose as many answers as you see fit.

☒ Column ☒ Correct!

☒ Row ☒ Correct!

☐ Text

☒ Box ☒ Correct!

5. What is the tool window for importing, creating, managing, and using resources in your app?

☐ Application Manager

☒ Resource Manager ☒ Correct!

☐ Resource Tool

☐ Layout Manager

6. Which class is an automatically generated class by Android that contains the IDs of all resources in the project.

☐ The `Android` class

☐ The `Resource` class

☒ The `R` Class ☒ Correct!

☐ The `ResourceID` class

7. Which function is used to load a drawable image resource.

- ☐ The `stringResource()` function
- ☒ The `painterResource()` function ✓ Correct!
- ☐ The `ImageResource()` function
- ☐ The `loadResource()` function

8. What is the function parameter used to add accessibility text, used by talkback?

- ☐ `accessibilityText`
- ☐ `contentText`
- ☐ `accessibilityDescription`
- ☒ `contentDescription` ✓ Correct!

9. The Box layout stacks the UI elements on top of one another.

- ☒ True ✓ Correct!
- ☐ False

10. What parameter is used to align the child element to the beginning of the parent?

- ☐ `Alignment.End`
- ☐ `Alignment.Begin`
- ☒ `Alignment.Start` ✓ Correct!
- ☐ `Alignment.Top`