



UNIVERSITI MALAYSIA TERENGGANU

FACULTY OF OCEAN ENGINEERING TECHNOLOGY & INFORMATICS

SEMESTER 1 2023/2024

NATIVE MOBILE PROGRAMMING

CSM 3123

LAB 2 REPORT

PREPARED FOR:

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PREPARED BY:

MOHAMAD HAZIM BIN MOHD SHAKRI (S61770)

LAB 2

For this lab it is best to login using your gmail id, to tracking your progress

Task 1 - Introduction to Kotlin

1. Follow this link for the instructions
<https://developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-1>
2. For Submission
 - a. Attached the screenshot for each finished non-optional activity in a report
 - b. Attached the pass quiz result in the report (repeat the quiz if not pass)
 - c. show clearly that the result is belong to yourself

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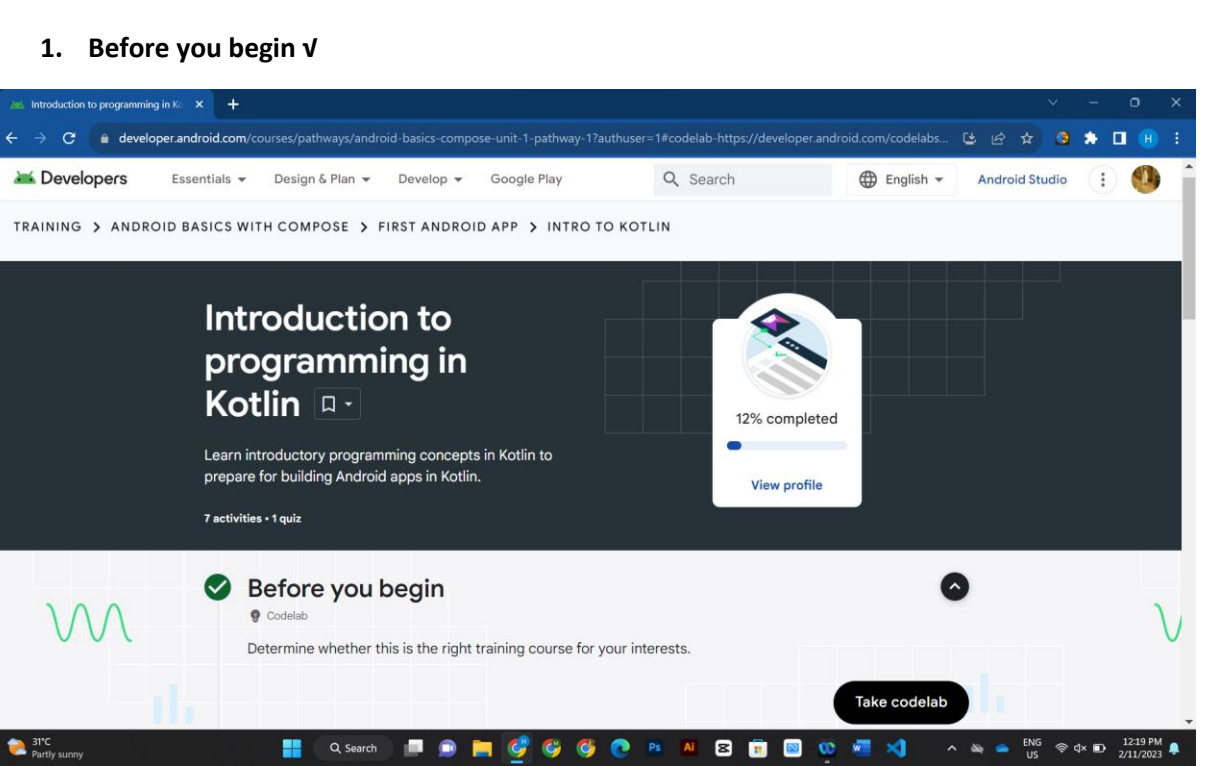
LAB 2

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- ## LAB 2
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2. Welcome to Android Basics with Compose v

The screenshot shows a web browser window with the URL `developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-1?authuser=1#codelab-https://developer.android.com/codelabs...`. The page title is "Welcome to Android Basics with Compose". Below the title, there is a video player with a large red play button in the center. Above the play button, the text "Welcome to Android Basics with Compose" is displayed. To the right of the video player, there are buttons for "Watch Later" and "Share". Below the video player, there is a "Watch on YouTube" button. The background of the page features a light blue grid pattern with green wavy lines and blue bar charts. The browser's address bar shows the URL, and the top navigation bar includes links for "Essentials", "Design & Plan", "Develop", and "Google Play". The bottom of the browser window shows a Windows taskbar with various application icons and a system tray displaying the date and time as 12:24 PM on 2/11/2023.

3. Your first program in Kotlin v

The screenshot shows the same web browser window as the previous one, but now displaying the "Your first program in Kotlin" section. The page title is "Your first program in Kotlin". Below the title, there is a large video player with a large red play button in the center. Above the play button, the text "Your first program in Kotlin" is displayed. To the right of the video player, there are buttons for "Watch Later" and "Share". Below the video player, there is a "Take codelab" button. The background of the page features a light blue grid pattern with green wavy lines and blue bar charts. The browser's address bar shows the URL, and the top navigation bar includes links for "Essentials", "Design & Plan", "Develop", and "Google Play". The bottom of the browser window shows a Windows taskbar with various application icons and a system tray displaying the date and time as 12:25 PM on 2/11/2023.

4. Create and use variable in Kotlin v

The screenshot shows a web browser window displaying the 'Introduction to programming in Kotlin' course on the developer.android.com website. The page is titled 'Welcome to Android Basics with Compose'. Below the title, there are three lessons listed with green checkmarks indicating completion: 'Your first program in Kotlin', 'Create and use variables in Kotlin', and 'Create and use functions in Kotlin'. The 'Create and use variables in Kotlin' lesson is highlighted with a light blue background. It includes a description: 'Learn why variables are useful in programming, as well as how to define and update variables in your Kotlin code.' and a 'Take codelab' button. The browser's address bar shows the URL: developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-1?authuser=1#codelab-https://developer.android.com/codelabs... The Windows taskbar at the bottom shows the system clock as 1:35 PM on 2/11/2023.

5. Create and use function in Kotlin v

The screenshot shows the same web browser window as before, but now the 'Create and use functions in Kotlin' lesson is highlighted with a light blue background. The description for this lesson is 'Learn about functions in Kotlin.' and it also has a 'Take codelab' button. Below this lesson, two more lessons are visible: '6 Practice Problems: Kotlin Basics' and '7 What's next?'. The browser's address bar and the Windows taskbar at the bottom remain the same, showing the system clock as 1:35 PM on 2/11/2023.

6. Practice Problems: Kotlin Basics ✓

The screenshot shows a web browser window with the URL `developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-1?authuser=1#codelab-https://developer.android.com/codelabs...`. The page title is 'Practice Problems: Kotlin Basics' by Codelab. It instructs the user to 'Apply the basic concepts of the Kotlin programming language to solve the given problems.' and features a 'Take codelab' button. Below this is a section titled '7 What's next?' with a 'Video Optional' icon. A 'Quiz' section follows, asking the user to 'Test what you've learned and earn your Introduction to Programming in Kotlin badge.' with a 'Take the quiz' button. The browser's taskbar at the bottom shows the date as 2/11/2023 and the time as 1:36 PM.

7. What's next? ✓

This screenshot shows the 'What's next?' section of the course. It features a video player for 'What's next? (Unit 1, Pathway 1)' with a play button and a 'Watch on YouTube' button. The video thumbnail shows a man wearing a green beanie and holding a large green Android mascot. Below the video, a message reads: 'Great job on learning the basics of the Kotlin programming language! Learn about what comes next in the course.' The browser's taskbar at the bottom shows the date as 2/11/2023 and the time as 1:37 PM.

8. Quiz ✓

Soccer Ball Sports Logo | BrandCr... x (3) WhatsApp x Intro to Programming | Android | x +

developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-1/android-basics-compose-unit-1-pathway-1?authuser=1&contin...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

TRAINING > ANDROID BASICS WITH COMPOSE > FIRST ANDROID APP > INTRO TO KOTLIN

Intro to Programming

Let's do a quick test! You must answer at least 7 questions correctly to pass this quiz.

Return to pathway

1. Which of the following variable declarations is valid?

☐ `var hello: Int? = ""`

☐ `String "hello" = hello`

☒ `val hello = "hello"` **Correct!**

☐ `hello: String = "hello"`

31°C Partly sunny 1:41 PM 2/11/2023

Soccer Ball Sports Logo | BrandCr... x (3) WhatsApp x Intro to Programming | Android | x +

developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-1/android-basics-compose-unit-1-pathway-1?authuser=1&contin...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

2. It is considered best practice to declare a variable that will not change using `var` instead of `val`.

☐ True

☒ False **Correct!**

3. Which of the following are valid ways to update a variable?

Choose as many answers as you see fit.

Partially Correct.

☒ `total++` **Correct!**

☐ `total - 1`

☐ `total--`

☐ `total = total + 1`

31°C Partly sunny 1:41 PM 2/11/2023

Soccer Ball Sports Logo | BrandCr... x (3) WhatsApp x Intro to Programming | Android | x +

developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-1/android-basics-compose-unit-1-pathway-1?authuser=1&contin...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

4. In Kotlin, comments can be single or multi-line and are ignored by the compiler.

☒ True **Correct!**

☐ False

5. Which of the following is not a data type in Kotlin?

☐ String

☒ Decimal **Correct!**

☐ Int

☐ Boolean

6. Float also represents a decimal, but is less precise than Double.

☒ True **Correct!**

☐ False

31°C
Ties record

Search

ENG US 1:42 PM 2/11/2023

Soccer Ball Sports Logo | BrandCr... x (3) WhatsApp x Intro to Programming | Android | x +

developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-1/android-basics-compose-unit-1-pathway-1?authuser=1&contin...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

7. In Kotlin, the entrypoint of a program is the ____.

☐ println() statement

☐ val variable

☒ main() function **Correct!**

☐ return statement

8. Which of the following are true about function return values?
Choose as many answers as you see fit.

Partially Correct.

☒ If a function does not specify a return type, the return type is Unit. **Correct!**

☐ A return value can be stored in a variable.

☒ Functions with a return type of Unit must include a return statement. **Incorrect.**

☐ A return value's type must match the return type of a function.

31°C
Ties record

Search

ENG US 1:42 PM 2/11/2023

Soccer Ball Sports Logo | BrandCr... x (3) WhatsApp x Intro to Programming | Android I... x +

developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-1/android-basics-compose-unit-1-pathway-1?authuser=1&contin...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

9. Which of the following are true about functions?
Choose as many answers as you see fit.

Partially Correct.

- ☒ Functions can take parameters, or variables as inputs. Correct!
- ☐ Function parameters are required to have default arguments.
- ☒ When calling a function with parameters, the values passed in are called arguments. Correct!
- ☐ Breaking up your code into separate functions makes your code easier to maintain.

10. With named arguments, you can change the order in which you pass arguments into a function.

☒ True Correct!

☐ False

31°C
Ties record

Q Search

ENG US 1:42 PM 2/11/2023

Results v

Soccer Ball Sports Logo | BrandCr... x (2) WhatsApp x Intro to Programming | Android I... x +

developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-1/android-basics-compose-unit-1-pathway-1?authuser=1&contin...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

into a function.





☒ True Correct!

☐ False

Results

You scored 7 out of 10. Congratulations! You have passed this quiz.

You earned the Introduction to programming in Kotlin badge!
The badge has been added to your profile.

Share    

[Return to pathway](#) [View profile](#)

31°C
High UV

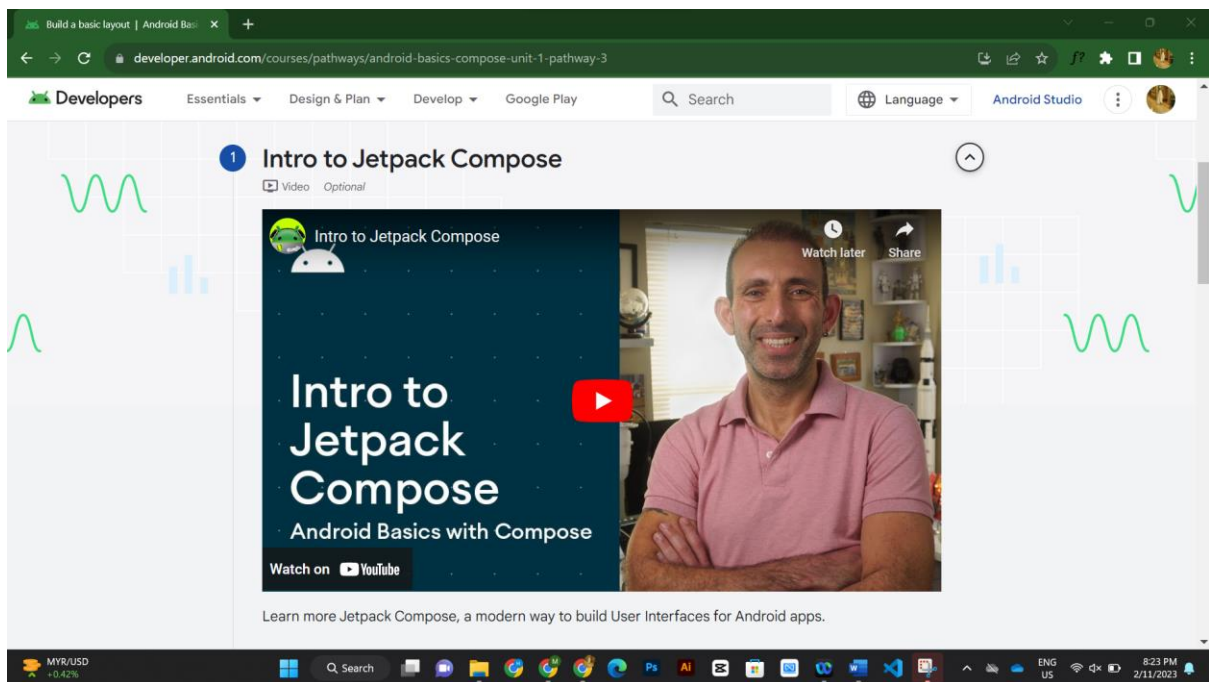
Q Search

ENG US 1:40 PM 2/11/2023

Task 2 - Using basic layout

1. Follow this link for the instructions
<https://developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-3>
2. For submission
 - a. Attached the screenshot for each finished non-optional activity in a report
 - b. Attached the pass quiz result in the report (repeat the quiz if not pass)
 - c. show clearly that the result is belong to yourself
 - d. Attached a github link for finished task

1. Intro to Jetpack Compose v



The screenshot shows a web browser displaying the 'Intro to Jetpack Compose' video player. The browser's address bar shows the URL: developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-3. The page header includes navigation links: Developers, Essentials, Design & Plan, Develop, and Google Play. The video player itself has a title 'Intro to Jetpack Compose' and a subtitle 'Android Basics with Compose'. The video thumbnail features a man in a pink polo shirt with his arms crossed. Below the video player, there is a text link: 'Learn more Jetpack Compose, a modern way to build User Interfaces for Android apps.' The Windows taskbar is visible at the bottom, showing the time as 8:23 PM on 2/11/2023.

2. Design a birthday card app ✓

The screenshot shows a web browser displaying the Android Developer website. The page title is "Design a birthday card app" and it is part of the "Android Basics with Compose" series. The video thumbnail features a woman holding a birthday card and a birthday cake. The video is marked as "Optional" and has a "Watch later" button. The page also includes a search bar, a language selector, and a navigation menu with options like "Essentials", "Design & Plan", "Develop", and "Google Play". The bottom of the page shows a Windows taskbar with various application icons and a system tray displaying the date and time as 8:24 PM on 2/11/2023.

Build a basic layout | Android Bas... x +

developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-3

Developers Essentials Design & Plan Develop Google Play Search Language Android Studio

2 Design a birthday card app

Video Optional

Design a birthday card app

Watch later Share

Design a birthday card app

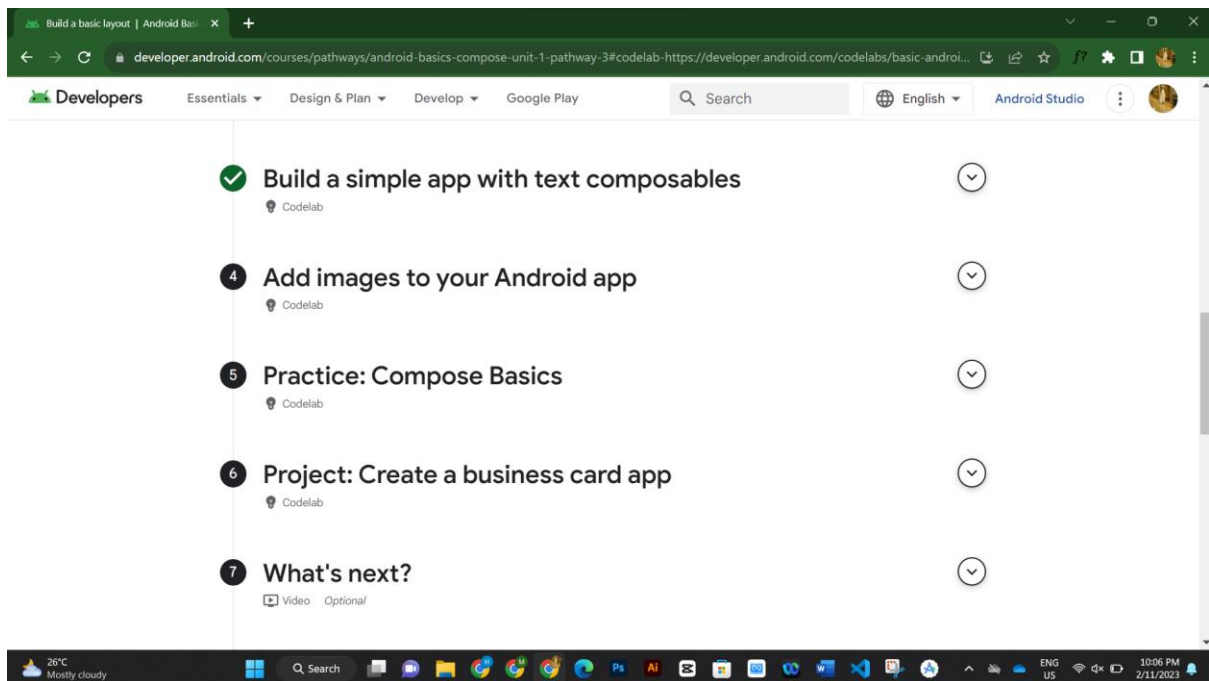
Android Basics with Compose

Watch on YouTube

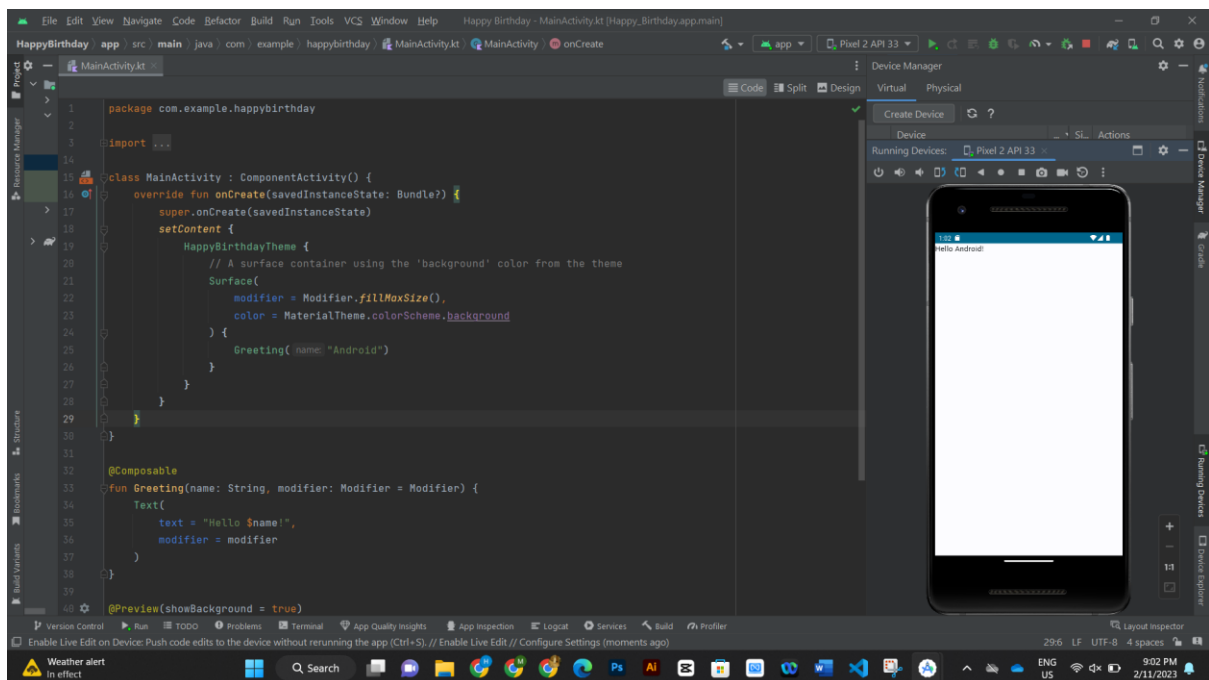
Learn about the tools you'll use to start developing apps.

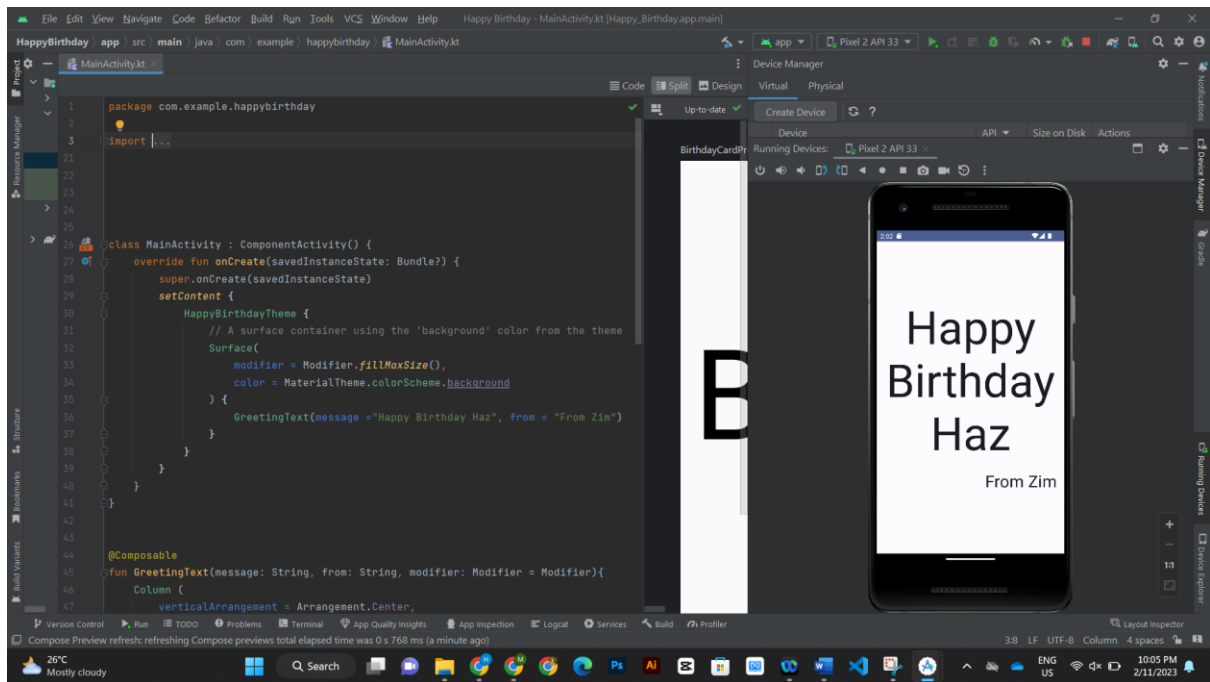
27°C Partly cloudy Search Ps AI ENG US 8:24 PM 2/11/2023

3. Build a simple app with text composables v



Code and Final Output:





4. Add images to your Android app v

The screenshot shows the Android Studio interface with the 'Build a basic layout' pathway selected. The lesson 'Add images to your Android app' is highlighted, with a green checkmark indicating it is completed. Below it, the next steps are 'Practice: Compose Basics', 'Project: Create a business card app', and 'What's next?'. A 'Quiz' section is also visible, prompting the user to test their knowledge and earn a badge.

Build a basic layout | Android Bas... x +

developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-3#code...
https://developer.android.com/codelabs/basic-androi...

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✓ Add images to your Android app
Codelab

5 Practice: Compose Basics
Codelab

6 Project: Create a business card app
Codelab

7 What's next?
Video Optional

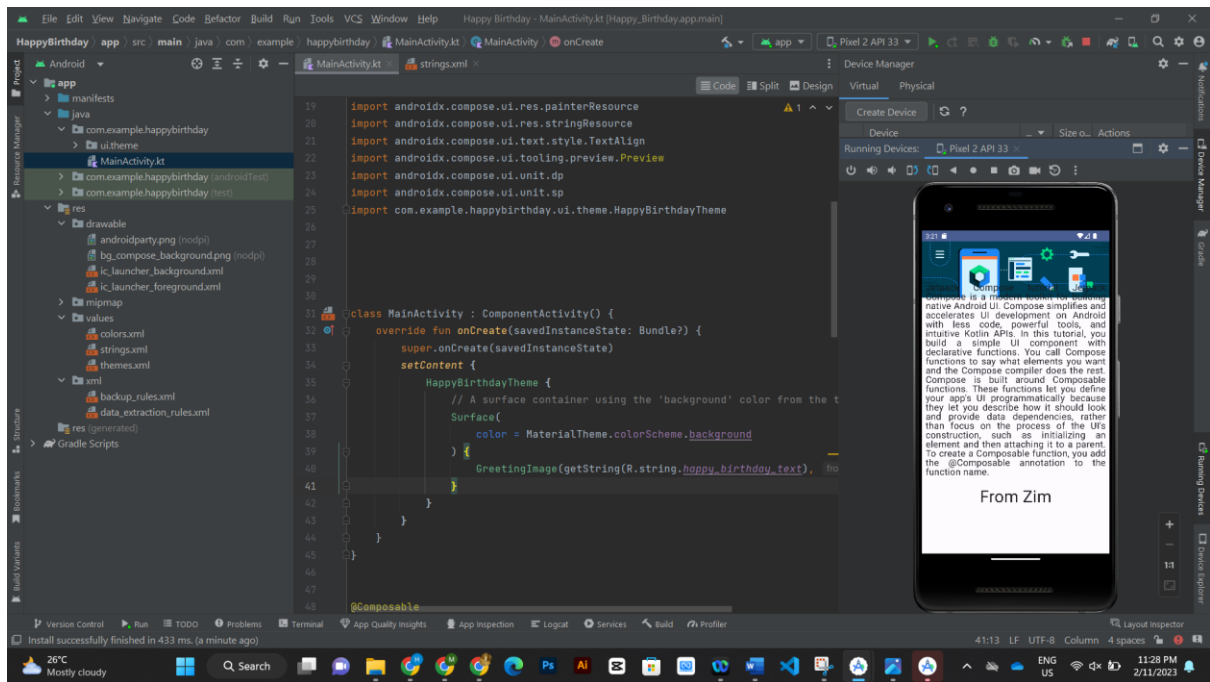
Quiz
Test what you've learned and earn your Build a basic layout badge.

Code and Final Output:

The screenshot displays the Android Studio IDE with the Kotlin code for a birthday card app. The code uses Compose to create a card with a background image, a message, and a sender. The final output is shown on a virtual device, displaying the birthday card with the text 'Happy Birthday Haz' and 'From Zim'.

```
50 Column (
51     verticalArrangement = Arrangement.Center,
52     modifier = modifier
53 ) { this ColumnScope:
54
55     Text(
56         text = message,
57         fontSize = 100.sp,
58         lineHeight = 1.16.sp,
59         textAlign = TextAlign.Center
60     )
61
62     Text(
63         text = from,
64         fontSize = 36.sp,
65         modifier = Modifier
66             .padding(16.dp)
67             .align(alignment = Alignment.CenterHorizontally)
68     )
69 }
70
71 @Composable
72 fun GreetingImage(message: String, from: String, modifier: Modifier = Modifier) {
73     val image = painterResource(R.drawable.androidparty)
74     Box { this BoxScope:
75         Image(
76             painter = image,
77             contentDescription = null,
78         )
79     }
80 }
```

Happy Birthday
Haz
From Zim



5. Practice: Compose Basics v

Build a basic layout | Android Basics

developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-3#code-lab-https://developer.android.com/codelabs/basic-android...

🔍 Search

English

Android Studio

✔ Practice: Compose Basics

🔗 Codelab

6 Project: Create a business card app

🔗 Codelab

7 What's next?

📺 Video Optional

Quiz

Test what you've learned and earn your Build a basic layout badge.

Take the quiz

Code and Final Output:

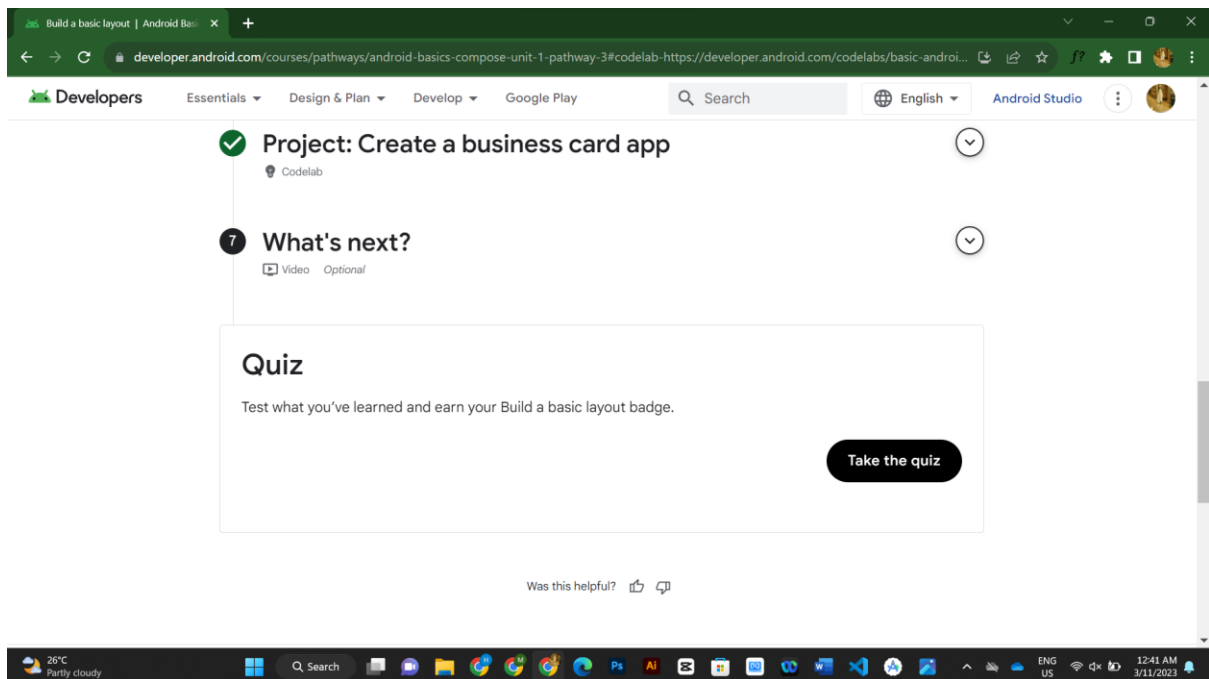
The screenshot shows the Android Studio IDE with the following components:

- Top Bar:** Menus (File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Window, Help) and tabs for 'Happy Birthday - MainActivity.kt (Happy Birthday.app/main)'.
- Left Sidebar (Project Structure):**
 - app
 - manifests: AndroidManifest.xml
 - java: com.example.happybirthday
 - MainActivity.kt (selected)
 - res
 - drawable: androidparty.png, bg_compose_background.png, ic_launcher_background.xml, ic_launcher_foreground.xml, ic_task_completed.png
 - mipmap: colors.xml, strings.xml, themes.xml
 - values: backup_rules.xml, data_extraction_rules.xml
 - xml: res (generated), res (generated)
 - Gradle Scripts
- Main Editor:** Kotlin code for MainActivity.kt:


```

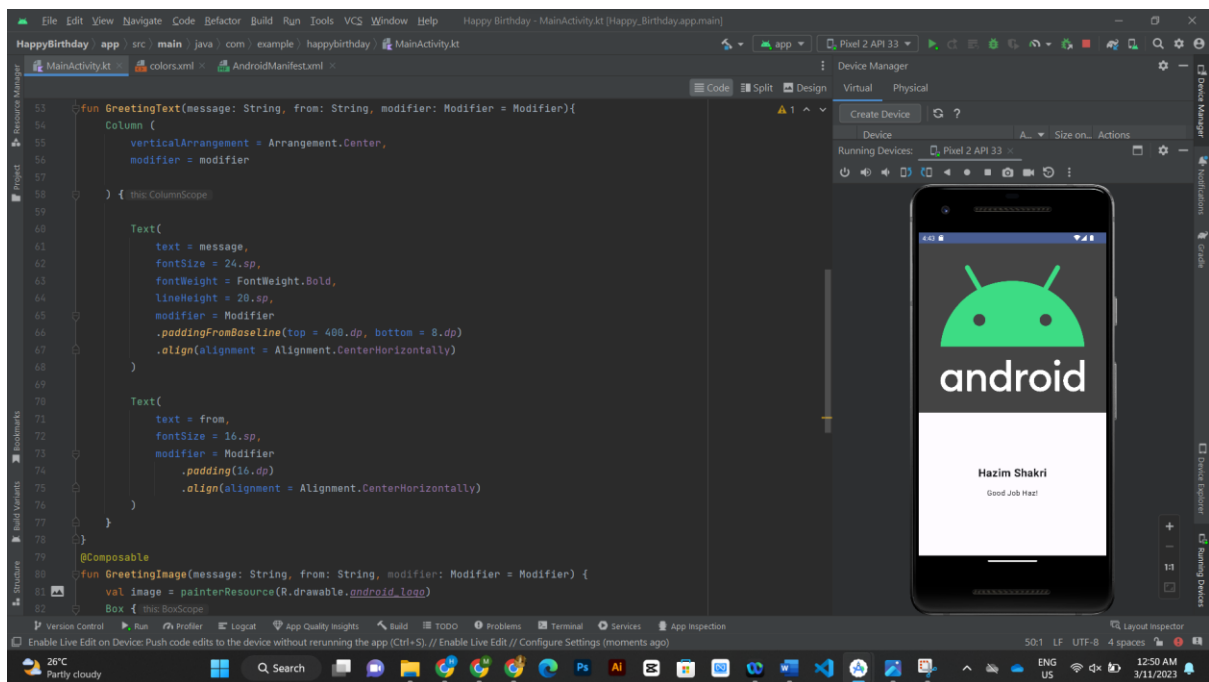
48 @Composable
49 fun GreetingText(message: String, from: String, modifier: Modifier = Modifier) {
50     Column {
51         verticalArrangement = Arrangement.Center,
52         modifier = modifier
53     }
54     Text(
55         text = message,
56         fontSize = 24.sp,
57         fontWeight = FontWeight.Bold,
58         lineHeight = 20.sp,
59         modifier = Modifier
60             .paddingFromBaseline(top = 400.dp, bottom = 8.dp)
61             .align(alignment = Alignment.CenterHorizontally)
62     )
63     Text(
64         text = from,
65         fontSize = 16.sp,
66         modifier = Modifier
67             .padding(16.dp)
68             .align(alignment = Alignment.CenterHorizontally)
69     )
70 }
71
72 @Composable
73 fun GreetingImage(message: String, from: String, modifier: Modifier = Modifier) {
74     val image = painterResource(R.drawable.ic_task_completed)
75 }
      
```
- Right Sidebar (Device Manager):**
 - Device: Pixel 2 API 33
 - Running Devices: Pixel 2 API 33
 - Preview: A virtual device showing a green circle with a blue checkmark and the text "All tasks completed" and "Good Job Hazi".
- Bottom Bar:**
 - Version Control, Run, TODO, Problems, Terminal, App Quality Insights, App Inspection, Logcat, Services, Build, Profiler
 - Status: Install successfully finished in 1 s 206 ms. (3 minutes ago)
 - System: 11:09 AM, 3/11/2023

6. Project: Create a business card app v



The screenshot shows the Android Studio interface with the 'Project: Create a business card app' tutorial page. The page is titled 'Project: Create a business card app' and includes a 'What's next?' section with a video link and a 'Quiz' section with a 'Take the quiz' button. The page is part of the 'Build a basic layout' series.

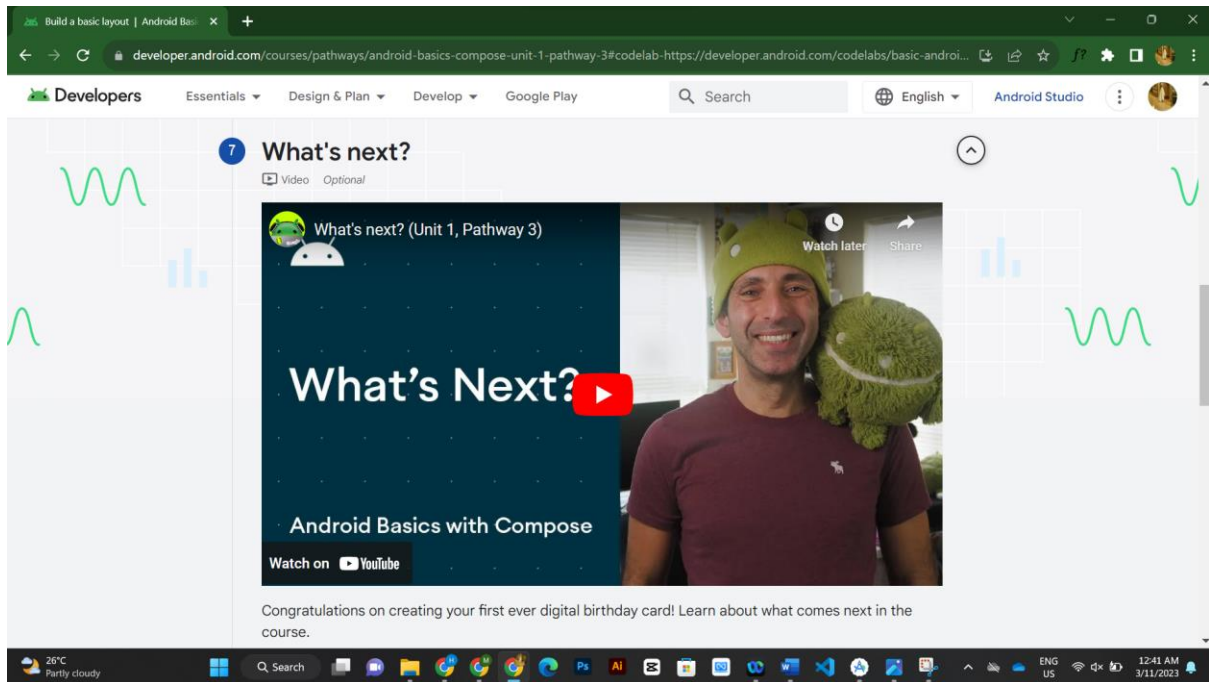
Code and Final Output:



The screenshot shows the Android Studio interface with the code for the 'Happy Birthday' app. The code defines a `GreetingText` function and a `GreetingImage` function, which are used in the `MainActivity.kt` file. The final output is a business card app showing the Android logo and the name 'Hazim Shakri'.

```
53 fun GreetingText(message: String, from: String, modifier: Modifier = Modifier){
54     Column (
55         verticalArrangement = Arrangement.Center,
56         modifier = modifier
57     ) {
58         // This ColumnScope
59
60         Text(
61             text = message,
62             fontSize = 24.sp,
63             fontWeight = FontWeight.Bold,
64             lineHeight = 20.sp,
65             modifier = Modifier
66                 .paddingFromBaseline(top = 400.dp, bottom = 8.dp)
67                 .align(alignment = Alignment.CenterHorizontally)
68         )
69
70         Text(
71             text = from,
72             fontSize = 16.sp,
73             modifier = Modifier
74                 .padding(16.dp)
75                 .align(alignment = Alignment.CenterHorizontally)
76         )
77     }
78 }
79
80 @Composable
81 fun GreetingImage(message: String, from: String, modifier: Modifier = Modifier) {
82     Box {
83         // This BoxScope
```

1. What's next? ✓



The screenshot shows a web browser window displaying the Android Developer website. The page title is "What's next?" and it is categorized as a "Video" and "Optional" resource. The video player shows a man wearing a green Android hat and holding a green Android plush toy, with the text "What's Next?" and "Android Basics with Compose" overlaid. Below the video player, there is a congratulatory message: "Congratulations on creating your first ever digital birthday card! Learn about what comes next in the course." The browser's address bar shows the URL: developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-3#code-lab-https://developer.android.com/codelabs/basic-android.... The browser's search bar and navigation menu are visible at the top. The Windows taskbar at the bottom shows the date and time as 12:41 AM on 3/11/2023.

Build a basic layout | Android Basics with Compose

developer.android.com/courses/pathways/android-basics-compose-unit-1-pathway-3#code-lab-https://developer.android.com/codelabs/basic-android...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

7 What's next? Video Optional

What's next? (Unit 1, Pathway 3)

What's Next?

Android Basics with Compose

Watch on YouTube

Watch later Share

Congratulations on creating your first ever digital birthday card! Learn about what comes next in the course.

26°C Partly cloudy Search Ps AI 12:41 AM 3/11/2023

Quiz v

The image shows two screenshots of the Android Developer website. The top screenshot displays a quiz titled "What's next?" with a "Take the quiz" button. The bottom screenshot shows the "Build a basic layout" quiz, which includes a "Return to pathway" button and two questions about Jetpack Compose. The first question is "1. What is Jetpack Compose?" with the correct answer being "A Modern toolkit to develop Android UI". The second question is "2. Composable functions are the basic building block of Compose."

What's next?
Video Optional

Quiz
Test what you've learned and earn your Build a basic layout badge.

[Take the quiz](#)

Was this helpful?

Build a basic layout
Let's do a quick test! You must answer at least 7 questions correctly to pass this quiz.

[Return to pathway](#)

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.

Build a basic layout | Android De... x +

developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-3/android-basics-compose-unit-1-pathway-3?continue=https%3A...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

☐ 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

26°C Partly cloudy Search 12:43 AM 3/11/2023

Build a basic layout | Android De... x +

developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-3/android-basics-compose-unit-1-pathway-3?continue=https%3A...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

4. The three 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

26°C Partly cloudy Search 12:43 AM 3/11/2023

developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-3/android-basics-compose-unit-1-pathway-3?continue=https%3A...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

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

26°C Partly cloudy 12:44 AM 3/11/2023

26 Build a basic layout | Android De... x +

developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-3/android-basics-compose-unit-1-pathway-3?continue=https%3A...

Developers Essentials Design & Plan Develop Google Play Search English Android Studio

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` Incorrect.
- ☐ `Alignment.Begin`

26°C Partly cloudy 12:44 AM 3/11/2023

Results:

The screenshot shows a web browser window with the URL `developer.android.com/courses/quizzes/android-basics-compose-unit-1-pathway-3/android-basics-compose-unit-1-pathway-3?continue=https%3A...`. The page header includes the 'Developers' logo, navigation links (Essentials, Design & Plan, Develop, Google Play), a search bar, and a language selector set to 'English'. Below the header, there are three radio button options: `Alignment.Begin`, `Alignment.Start`, and `Alignment.Top`. The main content area is titled 'Results' and displays the message: 'You scored 9 out of 10. Congratulations! You have passed this quiz.' Below this, a badge notification states: 'You earned the Build a Basic Layout badge! The badge has been added to your profile.' The badge itself is a circular icon with a blue background and a white Android robot head. At the bottom of the notification box, there are social sharing icons (Twitter, Facebook, LinkedIn, Email) and two buttons: 'Return to pathway' and 'View profile'. The Windows taskbar at the bottom shows the system clock as 12:44 AM on 3/11/2023, along with weather information (26°C, Very humid) and various application icons.

GitHub Link:

Click [here](#)