**Knowledge check: Activities and Views**

1.The first screen that appears after an app is launched is known as a \_\_\_\_\_\_\_\_\_\_\_\_\_?

1. Main Activity
2. Component Activity
3. Screen class

2. What are the advantages of using Jetpack Compose for UI development? Check all that apply.

1. It can help build a UI using less code
2. It builds a UI without needing to use an Activity.
3. It simplifies the development of UI components for Android applications
4. It helps developers maintain a consistent UI across multiple devices and platforms such as Android, iOS and the web.

3. What is the purpose of View Groups when building an Android UI? Select all that apply.

1. To allow for the creation of complex user interfaces
2. To define the navigation paths between screens
3. To replace the use of TextView
4. To provide a better organization of views.

4.Which of these are commonly used views in Android applications? Select all that apply.

1. ButtonView
2. Button
3. ActivityView
4. TextView
5. TextField
6. ImageView

5. Which of the following are layout views that can be used in Android UI design. Select all that apply.

1. GridLayout
2. UILayout
3. RelativeLayout
4. ViewLayout
5. LinearLayout

1. a

2. a c d

3. a b d

4. b d e f

5. a c e

# Self-review: A basic UI with Compose

1.When defining the string resource in the exercise, what was the ID of the title string?

1. R.string.title
2. R.id.string.title
3. R.id.title

2.Adding the font size parameter to RestaurantName() composable limits it to emit Text of 32sp only.

1. True
2. False

3. How many arguments were passed to the RestaurantNamePreview() function?

1. One
2. None
3. Two

1. a

2. b

3. b

# Knowledge check: Introduction to Composable UI

1. Declarative UI programming allows developers to define the UI and its behavior in a concise and expressive way by describing the desired result instead of the details of how to achieve it.

1. True
2. False

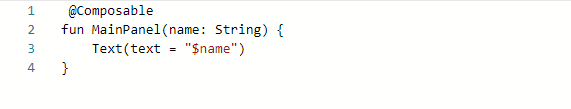
2. In Jetpack Compose the ‘Compose’ item can best be described as:

1. A library for developing UI that is part of the Jetpack suite.
2. Compose is a tool that builds a UI without needing to use an Activity
3. A reusable view component.

3. What are the three main benefits to using a declarative approach when building an Android UI? Select all that apply.

1. Reduced need for unit tests
2. Easier to read and debug code
3. Improved performance
4. Less complex UI components
5. More succinct code

4. In this code,a composable function is defined. What is the name of this function?



1. Composable
2. MainPanel
3. Text

5. In this code, a composable function is defined. In the second-last code line the “name” argument is passed to another function Text. What is the best description of this function?

A white background with black text

Description automatically generated

1. A built-in composable function in the Compose library.
2. A variable
3. A function written by the developer.

1. a

2. c

3. b c e

4. b

5. a

# Self-review: Defining a login screen with Compose

1. In this exercise, which arguments were used to position content on the screen?
2. horizontalAlignment = Alignment.CenterHorizontally and verticalArrangement = Arrangement.Center
3. verticalArrangement = Arrangement.Center
4. horizontalAlignment = Alignment.CenterHorizontally
5. In this exercise, what was the name of the Composable used to add Little Lemon logo?
6. ImageView
7. Image
8. Drawable
9. Painter

3. In this exercise, what annotation is required to create Composable Preview?

1. Composable and Preview annotations
2. Preview annotation only
3. Composable annotation only

1. a

2. b

3. a

# Basic UI creation in Android

1. Which of the following would you use to create a screen of nested composables in such a way that the elements stack up vertically?

1. Column layout
2. Row layout
3. Grid layout
4. Panel layout

2. What is an **Activity** in Android UI Development?

1. A special type of **ViewGroup** container.
2. A resource file that stores application data.
3. A component that allows users to interact with the app UI.
4. A function that performs a calculation.

3. Which of the following are all UI elements subclasses of?

1. the **ViewGroup** class
2. the **View** class
3. the **Layout** class
4. an **Activity**

4. Which of the following states are part of the **Activity** Lifecycle in Android UI Development?

Select three that apply.

1. Deleted
2. Started
3. Resumed
4. Created

5. Which of the following properties do all views and view groups have in common? Select all that apply.

1. **src**
2. **layout\_height**
3. **layout\_centerInParent**
4. **layout\_width**

6. Which of the following is based on the declarative approach?

1. the View class
2. Inheritance
3. Jetpack Compose
4. the traditional view system

7. Which of these is a way to preview the appearance of an Android UI?

1. Use the Android Studio Emulator.
2. Use the Android Studio Debugger.
3. Use the Android Studio Layout Editor.

8. When you are specifying the size of an element on an Android UI, you can use the **dp** unit of measurement. This term is shorthand for?

1. Density-dependent pixel
2. Dots Per Inch
3. Density-independent pixel

9. Which of the following correspond to the attributes of XML elements?

1. View groups
2. Layouts
3. View Subclasses
4. Object properties

10. Which of the following are guides in organizing and arranging other UI elements on the screen?

1. composables
2. views
3. layouts

1.a 2.c 3.b 4.b,c,d 5.b,d 6.c 7.c 8.c 9.a 10.c