1. What is the latest version of Android?

The most recent version, **Android 13**, was published on August 15, 2022, while the recently released **Android 12.1/12L** offers advancements for foldable phones, tablets, desktop-sized screens, and Chromebooks.

### **What is an Activity?**

An Activity is the screen representation of an application in Android.

### **Define intents in Android.**

An Intent is an “intention” to do an action.  An intent is a messaging object you can use to request an action from another app component.

1. **What are the types of Intent?**

**Types of Intent:**

* + 1. **Implicit Intent:** Implicit Intent is used whenever you are performing an action.
    2. **Explicit Intent:** Explicit intent is when an application defines the target component directly in the intent.

1. **Describe Android Frame work**

**It is an important aspect of the android architecture. We can find all the classes and methods that developers would need in order to write applications on the android environment.**

1. **What is the Android Architecture?**

Android architecture refers to the different layers in the Android stack. It includes your operating system, middleware, and important applications. Each layer in the architecture provides different services to the layer just above it. The four layers in the Android stack are:

Linux Kernel

Libraries

Android Framework

Android Applications

### **What is Google Android SDK?**

The Google Android SDK is a toolset that provides a developer the API libraries and tools required to build, test, and debug apps for Android in Windows, Mac or Linux.

### **What are the tools placed in android SDK?**

The tools placed in Android SDk are:

Android Emulator

DDMS – Dalvik Debug Monitoring Services

AAPT – Android Asset Packaging tool

ADB – Android debug bridge

### **What is a Toast? Write its syntax.**

Toast notification is a message that pops up on the window.

It only covers the expanse of space required for the message and the user’s recent activity remains visible and interactive.

The notification automatically fades in and out and does not accept interaction events.

**Syntax:**



### What are the different types of toast messages?

### There are four types of toast messages; SUCCESS, INFO, WARNING, and ERROR.

1. What is res?
   1. res – It is a directory for files that define your app’s user interface. You can add *TextView, button etc t*o build the GUI and use its various attributes like *android:layout\_width*, *android:layout\_height* etc which are used to set its width and height.
2. What do you mean by Gradle Scripts?
   1. Gradle Scripts – This is an auto-generated file which contains compileSdkVersion, buildToolsVersion, applicationId, minSdkVersion, targetSdkVersion, versionCode and versionName

### **What is the importance of an emulator in Android?**

* 1. The emulator lets you play around an interface that acts as if it were an actual device.
  2. It let you write and test codes, and even debug.
  3. It acts as a safe place for testing codes especially if it’s in the early design phase.

### **What is Dalvik Virtual Machine (DVM)?**

* 1. Dalvik is the name of Android’s virtual machine.
  2. The Dalvik VM is an interpreter-only virtual machine that executes files in the Dalvik Executable (.dex) format.
  3. The virtual machine is register-based and can run classes compiled by Java language compiler that have been altered into its native format using the included ‘dx’ tool.
  4. The Dalvik core class library is envisioned to provide a familiar development base for those used to programming with Java Standard Edition, but is geared explicitly for the needs of a small mobile device.

### What is Android Debug Bridge(ADB)?

### Android Debug Bridge is a command-line tool used to allow and control communication with an emulator instance. It gives the power for developers to execute remote shell commands to run applications on an emulator.

#### What are the different components of Android Navigation Architecture?

Android Navigation Architecture consists of four main components:

1. Navigation Graph
2. NavController
3. NavHost,
4. NavigationUI.

### How are layouts placed in Android?

### Layouts in Android are placed as XML files.

### What is the name of the database used in android?

### SQLite: An opensource and lightweight relational database for mobile devices.

### What is the Android Architecture?

### [Android Architecture](https://www.guru99.com/android-architecture.html) is made up of 4 key components:

1. Linux Kernel
2. Libraries
3. Android Framework
4. Android Applications

### **What are the core building blocks of android?**

1. Activity: An Activity is the screen representation of any application in Android.  Each activity has a layout file where you can place your UI.
2. Content Provider: Content providers share data between applications.
3. Service: It is a component that runs in the background to perform long-running operations without interacting with the user and it even works if application is destroyed.
4. Broadcast Receivers: It respond to broadcast messages from other applications or from the system itself. These messages are sometime called events or intents.