

## **Experiment No 01:**

**To install and configure Android Studio and Implement simple Android apk. viva Quiz and answer**

### **1. What is Android Studio?**

Answer: Android Studio is the official IDE (Integrated Development Environment) for Android app development provided by Google.

### **2. Which programming languages are supported by Android Studio?**

Answer: Java, Kotlin, and C++

### **3. What is an APK?**

Answer: APK stands for Android Package Kit, used to install applications on Android devices.

### **4. What is Android SDK?**

Answer: Android SDK is a collection of tools, libraries, and APIs used to develop Android applications.

### **5. What is an Activity in Android?**

Answer: An Activity represents a single screen with a user interface in an Android app.

### **6. What is AVD?**

Answer: AVD stands for Android Virtual Device, used to run and test Android apps on an emulator.

### **7. What is the use of Android Emulator?**

Answer: It simulates an Android device on a computer to test applications without a physical device.

### **8. Which file contains the UI design?**

Answer: activity\_main.xml

### **9. Which file contains the main logic of the app?**

Answer: MainActivity.java or MainActivity.kt

**10. What is Gradle?**

**Answer:** Gradle is a build automation tool used to compile, package, and manage dependencies.

**11. What is the minimum SDK?**

**Answer:** Minimum SDK defines the lowest Android version required to run the app.

**12. What is the purpose of Manifest file?**

**Answer:** AndroidManifest.xml defines app components, permissions, and app configuration.

**13. What is a Layout in Android?**

**Answer:** A layout is a UI structure that defines how views are arranged on the screen.

**14. What is a TextView?**

**Answer:** TextView is a UI component used to display text on the screen.

**15. What is the use of Run button in Android Studio?**

**Answer:** It is used to compile and execute the Android application.

**16. What is Debugging?**

**Answer:** Debugging is the process of finding and fixing errors in an application.

**17. Can we test an app without a real device?**

**Answer:** Yes, using Android Emulator (AVD).

**18. What is Logcat?**

**Answer:** Logcat is a tool used to view system messages and errors during app execution.

**19. What is the output of the simple APK experiment?**

**Answer:** A basic Android app displaying "Hello Android" message.

**20. Why is Android Studio preferred?**

**Answer:** Because it provides official support, advanced tools, emulator, and easy app development.