

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 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.