MASAI MARA UNIVERSITY COM 4137-1 MOBILE SYSTEMS PROGRAMMING CAT

- 1. Write a program in Kotlin to display "Hello, Android!" on the screen. (Practical)
- 2. Create a simple UI layout in XML for an Android app with a TextView and Button.(*Practical*)
- 3. Write a Dart code snippet to increment a counter in Flutter. (Practical)
- **4.** Write a REST API call in Flutter using the http package. (*Practical*)
- 5. How do you implement Firebase authentication in Android? (Practical)
- 6. Create a SQLite database in Android to store user data. (Practical)
- 7. What is asynchronous programming? Explain with Kotlin coroutines. (Theoretical + Practical)
- 8. Create a geolocation-based app in Flutter. (Practical)
- 9. What is JSON, and how do you parse it in Swift? (Practical)
- 10. Write a unit test for an Android function. (Practical)
- 11. How do you conduct performance testing for mobile apps? (Theoretical)
- 12. What is ProGuard, and how do you configure it in Android? (*Theoretical* + *Practical*)
- 13. Implement a custom splash screen in Android. (Practical)
- 14. What is continuous integration in mobile development? (Theoretical)
- 15. Write code to send a push notification in Firebase. (Practical)
- 16. Create an iOS app with a table view listing items. (*Practical*)
- 17. What is dependency injection? Explain with examples in Android.
- 18. How do you debug network errors in mobile apps? (Theoretical)
- 19. Create a Flutter app that fetches data from an API. (*Practical*)
- 20. Write a script to automate app builds in Android. (Practical)