Lappeenrannan teknillinen yliopisto

School of Business and Management

Sofware Development Skills

<Daria Zakharova>, <Insert student number here>

LEARNING DIARY, <CHOSEN MODULE NAME> MODULE

**LEARNING DIARY**

**21.09.2025**

I installed Android Studio and JDK 17 (Java SDK) and verified the setup with java -version / javac -version.

I created my first Android project TestApplication using Empty Views Activity (Java, XML layouts; Gradle with version catalog). Built a tiny calculator UI in activity\_main.xml (two EditTexts, one Button, one TextView) using ConstraintLayout. Implemented click handling in MainActivity.java: read numbers from the two inputs, add them, and show the result in the TextView.

I ran the app from Android Studio and tested the flow end-to-end.

Also I set up Git: created repo structure (lut-sds-mobile-2025/ with TestApplication/ + Coursework/), added an Android .gitignore, and made my initial commits.

I lerned Android project structure: 1) MainActivity.java controls logic and res/layout/activity\_main.xml defines the UI; 2) ConstraintLayout basics: every view needs both horizontal and vertical constraints. Design-time positions aren’t used at runtime; 3) event handling; 4) debugging: running with the debugger, setting breakpoints, and inspecting variables in Android Studio.

Time spent: ~3 hours (setup, project creation, coding, debugging, repo setup).