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# Application Development for Mobile Computer

<Week 3 (Lab)>

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# Warm-up

```
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Row
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.material3.OutlinedTextField
import androidx.compose.material3.Button
import androidx.compose.material3.MaterialTheme
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.remember
import androidx.compose.runtime.getValue
import androidx.compose.runtime.setValue
import androidx.compose.ui.unit.dp
```

```
fun Greeting(name: String, modifier: Modifier = Modifier) {
    var inputText by remember { mutableStateOf("") }
    var outputText by remember { mutableStateOf("") }

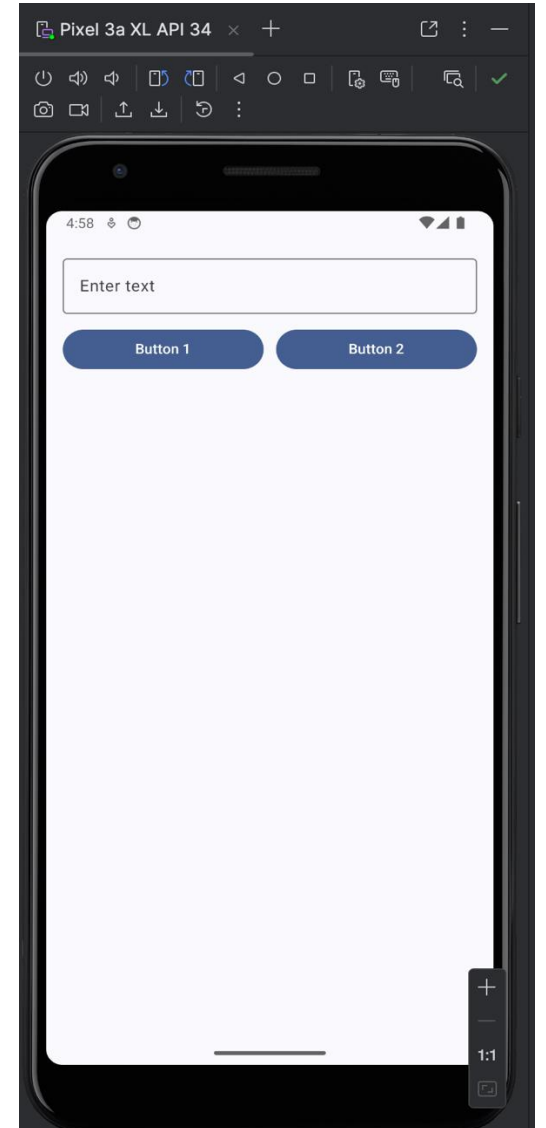
    Column(
        modifier = modifier.padding(16.dp),
        verticalArrangement = Arrangement.spacedBy(12.dp)
    ) {

        OutlinedTextField(
            value = inputText,
            onValueChange = { inputText = it },
            label = { Text("Enter text") },
            modifier = Modifier.fillMaxWidth()
        )
    }
}
```

```
Row(
    modifier = Modifier.fillMaxWidth(),
    horizontalArrangement = Arrangement.spacedBy(12.dp)
) {
    Button(
        onClick = { outputText = "Button 1: $inputText" },
        modifier = Modifier.weight(1f)
    ) {
        Text("Button 1")
    }

    Button(
        onClick = { outputText = "Button 2: $inputText" },
        modifier = Modifier.weight(1f)
    ) {
        Text("Button 2")
    }
}

if (outputText.isNotEmpty()) {
    Text(outputText, style = MaterialTheme.typography.bodyLarge)
}
}
```



# Assignment#3

## ■ Task

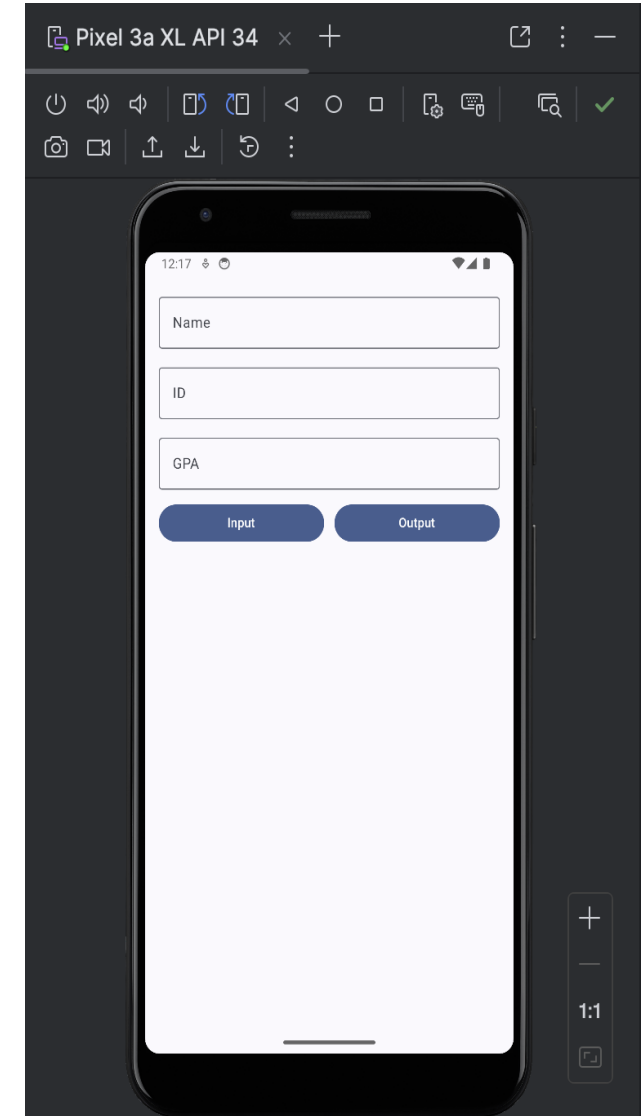
- Create a simple app using Android Studio.
- Define a Student class with the following properties - `name: String`, `ID: String`, `GPA: String`
- Implement a function named `StudentList`
  - The screen should provide three text fields to enter a student's Name, ID, and GPA.
  - Two buttons must be displayed below the text fields:
    - `Input`: Adds the entered student information as a Student object into a list.
    - `Output`: Displays all stored students with their details (Name, ID, GPA) in the order entered.
- The displayed results should clearly show each student's information
- Take screenshots of the emulator showing the results (refer to the samples on the next pages).
- Submit the final APK file together with the screenshots.

## ■ Submission

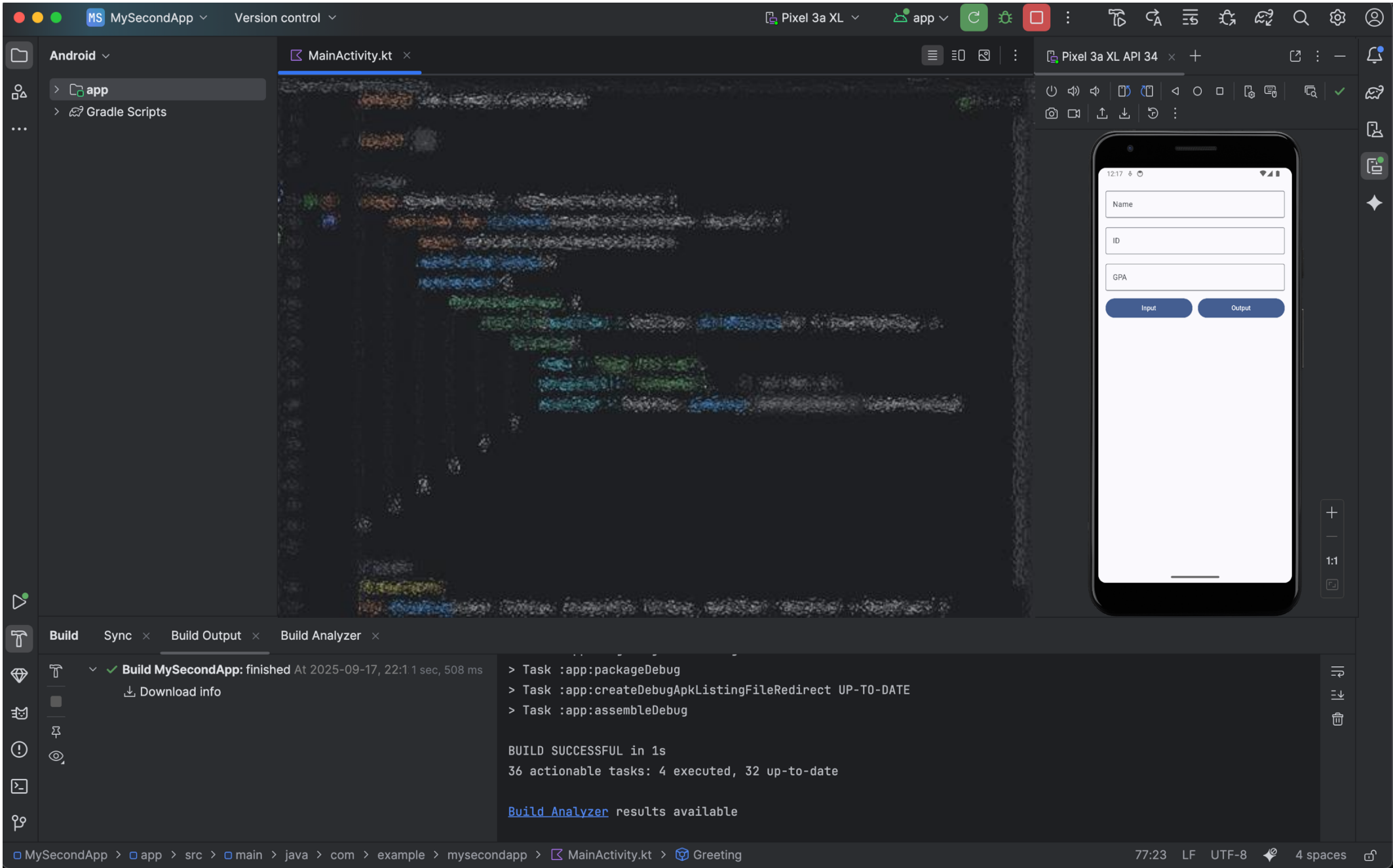
- **"Three" Emulator screenshots** (e.g., `Lab3_StudentID.png`)
- **APK file** (e.g., `Lab3_StudentID.apk`)

## ■ How to Submit

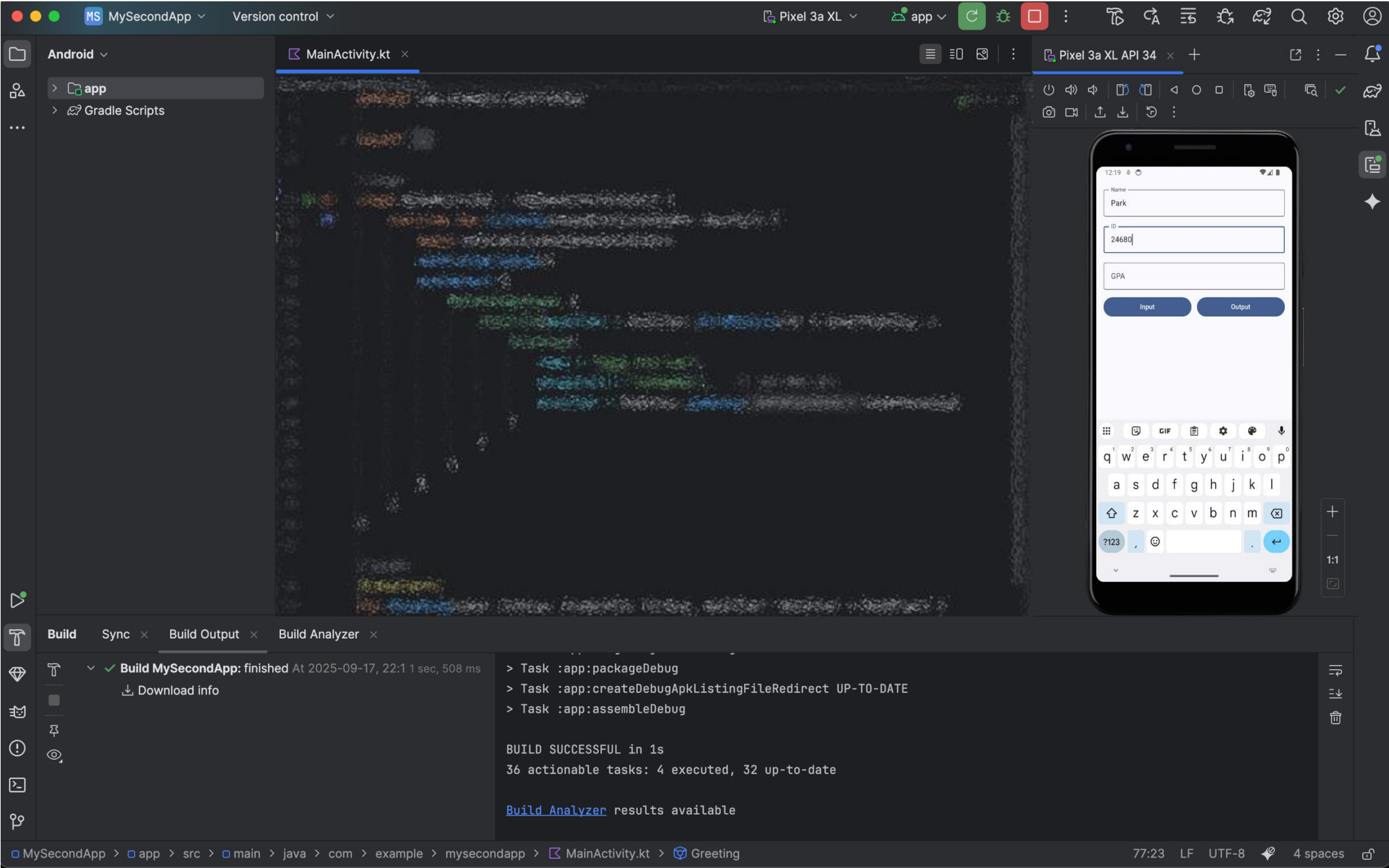
- Upload both the screenshot and APK file to e-class
- Deadline: 25.09.28



# Lab3\_StudentID\_1.png



Lab3\_StudentID\_2.png



# Lab3\_StudentID\_3.png

