Mobile App Development Midterm exam: Practical problem

Develop a Java Android app and run it on the Android physical/virtual device. Please use four activities and the class Intent in this app. Please use different names for activities – “Midterm exam”, “First problem”, “Second problem”, and “Third problem”.

# Problem 1

Write a Java program to calculate factorial of a number. The number should be between 0 and 20. It should give a valid error message when put a number other than the mentioned range.

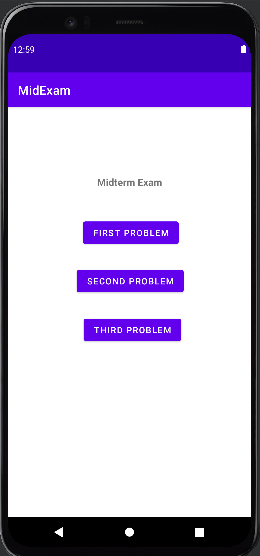
# Problem 2

Write a Java program to calculate the addition and difference of two numbers. The program should also take decimal numbers. Note: use the data types very carefully.

# Problem 3

Write a Java program to convert binary numbers into decimal numbers.

The solution to this problem takes a maximum of 50 % in the midterm exam grade (12.5 % for each activity). On Moodle, please upload a zip-file with all project files/folders and video (from “Start a new Android Studio project” to the final version) on how you have been developing the app. A video can be shared in Ms Teams during the exam timeslot as well.

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