BIRZEIT UNIVERSITY

Advanced Computer Systems Engineering Laboratory – ENCS5150

TODO 4: Fragments

Story: This ToDo aims to enhance your knowledge about the Fragments and Inter-Fragment communication design pattern.

Question: Using Android Studio software, design an android application that has an activity that has 3 fragments:

1st **Fragment:** It has 2 Plain Texts, a Text View, and a Button

2nd **Fragment:** It has a Text View and a Button.

3rd **Fragment:** It has a Text view and a Button.

Application flow:

- The user enters 2 numbers inside 1st fragment plain texts.
- When the button of the 1st fragment is pressed, the summation of the two numbers will be displayed in the 2nd fragment text view. In addition, the multiplication of the two numbers will be displayed in the 3rd fragment text view.
- Pressing the button in the 2nd fragment, will increment the summation result by 1, and display it in the 1st fragment text view.
- Pressing the button in the 3rd fragment, will decrement the multiplication result by 1, and display it in the 1st fragment text view.

NOTE THE NEXT PAGE - READ IT CAREFULLY

Grading Policy is shown in Table 1:

Table 1: Grading Policy

Point	Achieved grade
App Design: Single activity and 3 Fragments with specified components: Text View, etc.	/3
Inter-Fragment Communication Design Pattern	/2
Summation	/1
Multiplication	/1
Increment Button	/1.5
Decrement Button	/1.5
Total (10)	

Note: You need to fill it and send your mark expectation with solution. Otherwise, you will lose 2 marks.

READ ME: The name of the application must be in the following convention: UID FirstName FamilyName.

What to submit?

- Project.zip file (Size in KB)
    - From Android Studio: File → Export to zip file
- APK file
    - From Android Studio: Build → Build Bundle(s) / APK(s) → Build APK(s)
      Note the 'locate' word which will appear.
- Table 1 filled by yourself.

Where to submit?

- Reply to the message on Ritaj Only!

Deadline:

- Sent on a previous message with the delay penalty.