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|  | **BAHRIA UNIVERSITY,**  **(Karachi Campus)**  *Department of Computer Science*  **ASSIGNMENT#03 – Spring 2023**  **COMPLEX ENGINEERING PROBLEM** |

COURSE TITLE: **Software Applications for Mobile Devices** COURSE CODE: **SEN-448**

Class: **BSE – 6(A, B)** Shift: **Morning**

Course Instructor: **Engr. M. Adnan Ur Rehman** Date: **31-May-2023**

Due Date: **04-Jun-2023** Max. Points: **20 Points**

**Instructions:**

* This is a group assignment. Maximum three number of members are allowed per group. All members of a group MUST submit the same copy through LMS. Submission is permitted on ***LMS***.
* You must upload only compressed (.zip) version of app\src\main folder.
* Be aware of PLAGIARISM.

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| **Enrolment#** | **Student Name** |
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**TASK-1:** **[CLO3; 20 points]**

Create an android application in which user can control UI through volume up/down keys. Depending upon your research the examples of the type of UI controls are in a wide range but not limited to:

* Increasing/Decreasing a numeric value
* Scrolling the text.
* Adjusting zoom level of the UI
* Adjusting brightness level of the screen

You may utilize the concept of BroadcastReceiver for [AudioManager](https://developer.android.com/reference/android/media/AudioManager) class.