**National University of Computer and Emerging Sciences, Lahore Campus**

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|  | **Course:** | **COAL** | **Course Code:** | **EE-2003** |
|  | **Program:** | **BS (Computer Science)** | **Semester:** | **SPRING 2024** |
|  | **Deadline:** | **1st May'2024** | **Total Marks:** | **100** |
|  | **Section:** | **BCS-4B**  **ASSIGNMENT-6** | **Roll number:** |  |

**Instruction/Notes:**

* **Plagiarism in any form will result into a penalty.**
* **Submit only asm files and follow the naming convention (rollNumber\_questionNo) eg. 22L-1234\_q1**
* **Ensure that your programs handle every test case.**

**Question:1 (100)**

Develop an assembly code that interfaces with keyboard input, utilizing interrupts to detect key presses. Upon pressing 'r', 'b', or 'g', the program should display red, blue, or green respectively. Additionally, upon pressing 'e', the program should terminate gracefully. Ensure the code is structured to efficiently handle interrupts and provide clear color display functionality.