Lab 3 Task

CSE331L: Microprocessor & Embedded Systems

Department of Electrical and Computer Engineering

North South University

(You must follow the instructions learned in LAB)

Lab Task:

1. Use immediate instruction to load **5 (hex)** and **10 (hex)** in **r0** and **r1**, two of the general-purpose registers. Do **exclusive OR** between these two registers and store the value in a variable named **'xor_ans'.**
2. Create an array named **'arr1'** containing the numbers 1,2,3,4,5. Read the numbers using an unconditional branch and also using **r8** and **r9** register.
3. Create three branches named, **'bran1'**, **'bran2'** & **'bran3'** serially in the code segment. Then, in the first branch you need to move **1 (Decimal)** to **r3**. In the second branch, write down the code to move **2 (Decimal)** to **r4**. Again, In the third branch, write down the code to move **3 (Decimal)** to **r5**. Use branch less than condition to **'bran2'** with **r0** and **r1** and explain what happens.