BRAC University
Dept. of Computer Science and Engineering

Assessment: **Quiz 1**
Full Marks: **20**
SET   **A**

Semester:	Fall 2023	**Name:** _____
Course Code:	CSE251	
Section:	**15**	
Course Name:	**Electronic Devices and Circuits**	**Student ID:** _____

Question 1:   10 Marks

The two lines L_1 and L_2 signify the two loops in the adjacent circuit. Let input voltage $V_{IN} = 4.0\,\text{V}$.

   i.   Write the two loop equations along L_1 and L_2 using the quantities I_1, I_2 and $I_1 + I_2$.

   ii.   Solve the two loop equations to find I_1 and I_2.

   iii.   Find V_{OUT}.

[CO2]