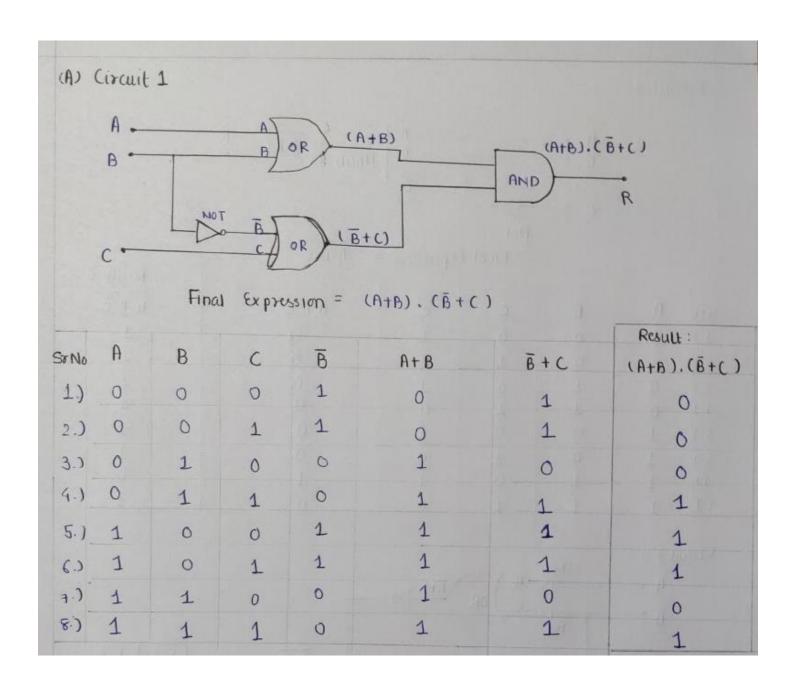
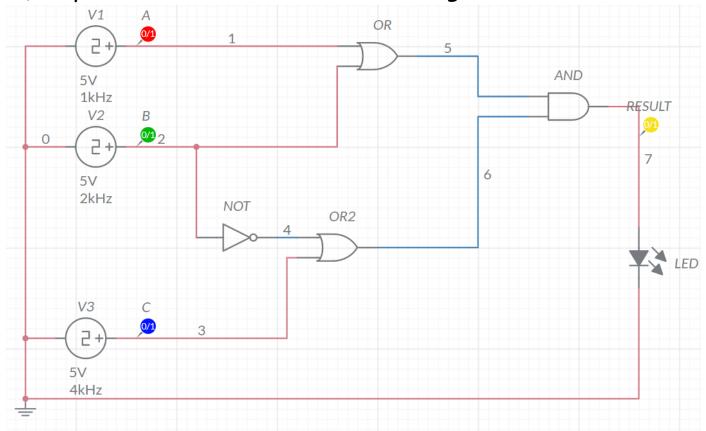
ASSIGNMENT SECTION

Question -1

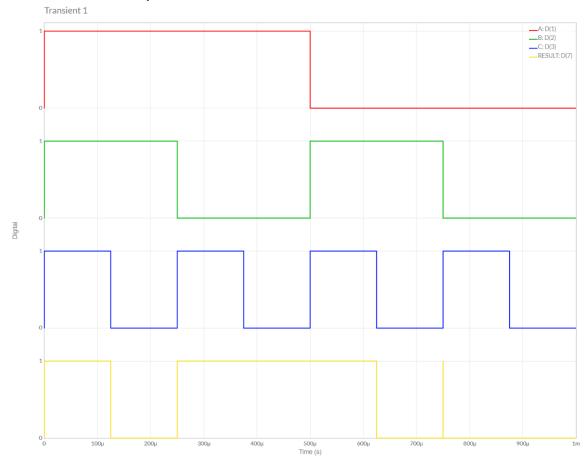
a.) Calculate the Logic Gates Circuit's Output [Theoretical]



b.) Implement the circuit as shown in Figure in Multisim online.



c.) Time Graph



d.) Final Result and Conclusion

	Α	В	С	Graph O/I	Theoratical O/I
1	0	0	0	0	0
2	0	0	1	0	0
3	0	1	0	0	0
4	0	1	1	1	1
5	1	0	0	1	1
6	1	0	1	1	1
7	1	1	0	0	0
8	1	1	1	1	1

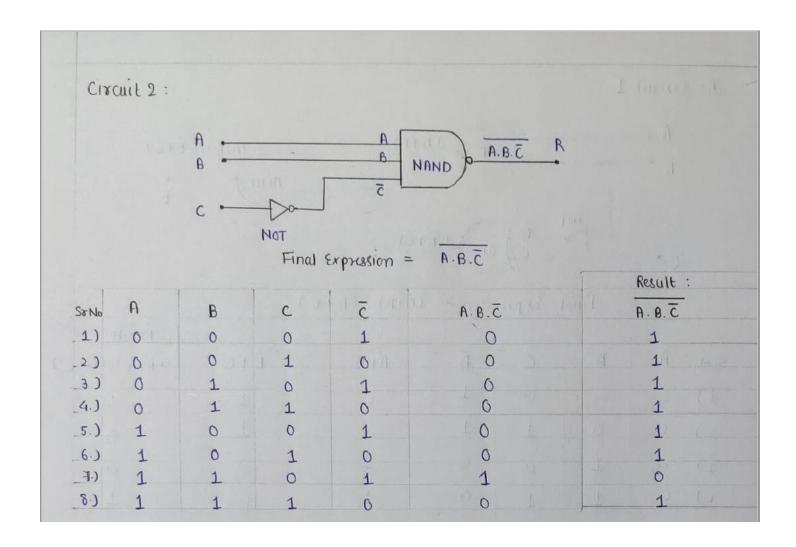
Conclusion:

We can observe from Above Table, Both the *Theoretical* and *Multisim* Values of <u>Given Circuit</u> are **Equal**.

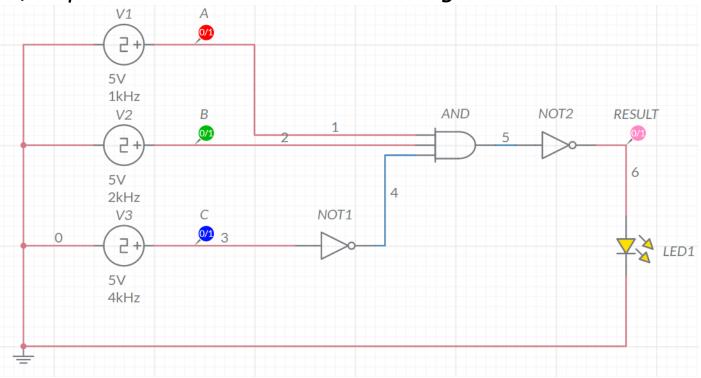
Hence, Experiment is Performed Successfully (without any Error).

Question -2

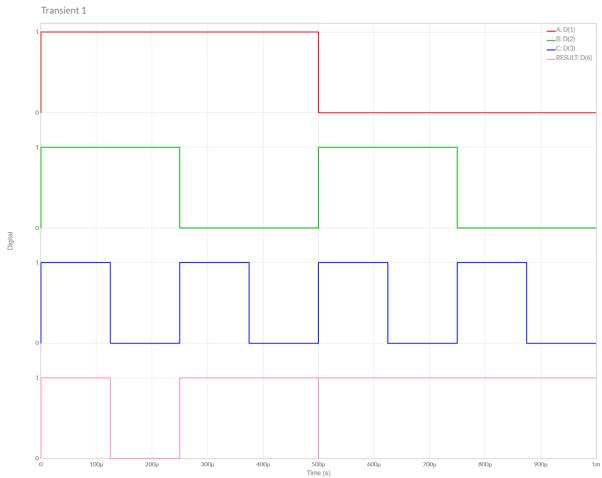
a.) Calculate the Logic Gates Circuit's Output [Theoretical]



b.) Implement the circuit as shown in Figure in Multisim online.



c.) Time Graph



d.) Final Result and Conclusion

	Α	В	С	Graph O/I	Theoratical O/I
1	0	0	0	1	1
2	0	0	1	1	1
3	0	1	0	1	1
4	0	1	1	1	1
5	1	0	0	1	1
6	1	0	1	1	1
7	1	1	0	0	0
8	1	1	1	1	1

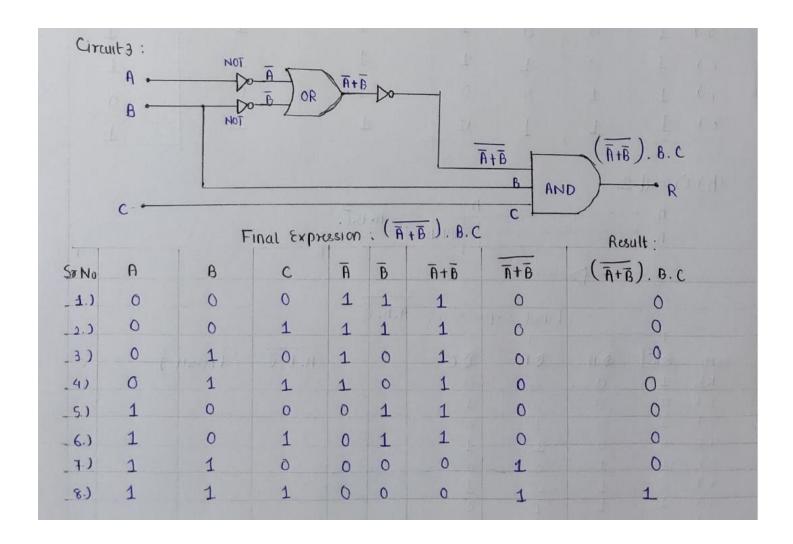
Conclusion:

We can observe from Above Graph, Both the *Theoretical* and *Multisim* Values of <u>Given Circuit</u> are **Equal**.

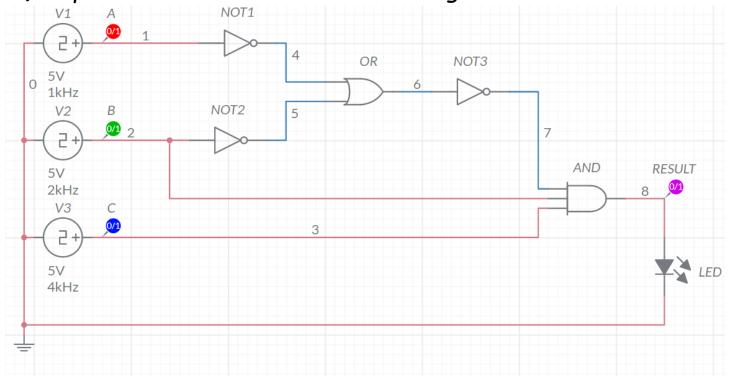
Hence, Experiment is Performed Successfully (without any Error).

Question -3

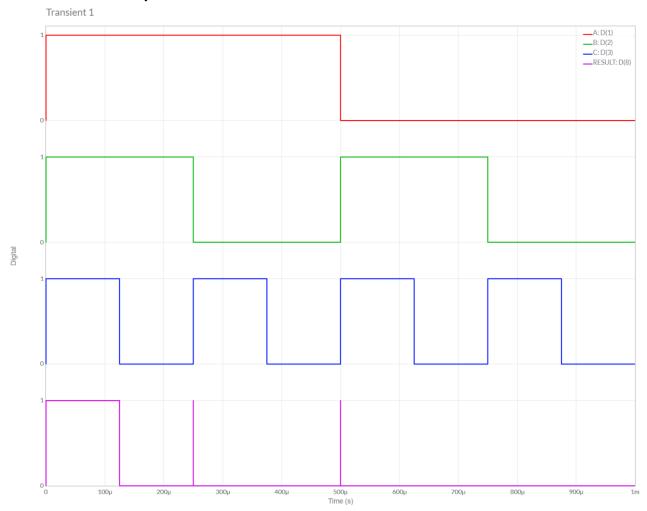
a.) Calculate the Logic Gates Circuit's Output [Theoretical]



b.) Implement the circuit as shown in Figure in Multisim online.



c.) Time Graph



d.) Final Result and Conclusion

	Α	В	С	Graph O/I	Theoratical O/I
1	0	0	0	0	0
2	0	0	1	0	0
3	0	1	0	0	0
4	0	1	1	0	0
5	1	0	0	0	0
6	1	0	1	0	0
7	1	1	0	0	0
8	1	1	1	1	1

Conclusion:

We can observe from Above Table, Both the *Theoretical* and *Multisim* Values of <u>Given Circuit</u> are **Equal**.

Hence, Experiment is Performed Successfully (without any Error).