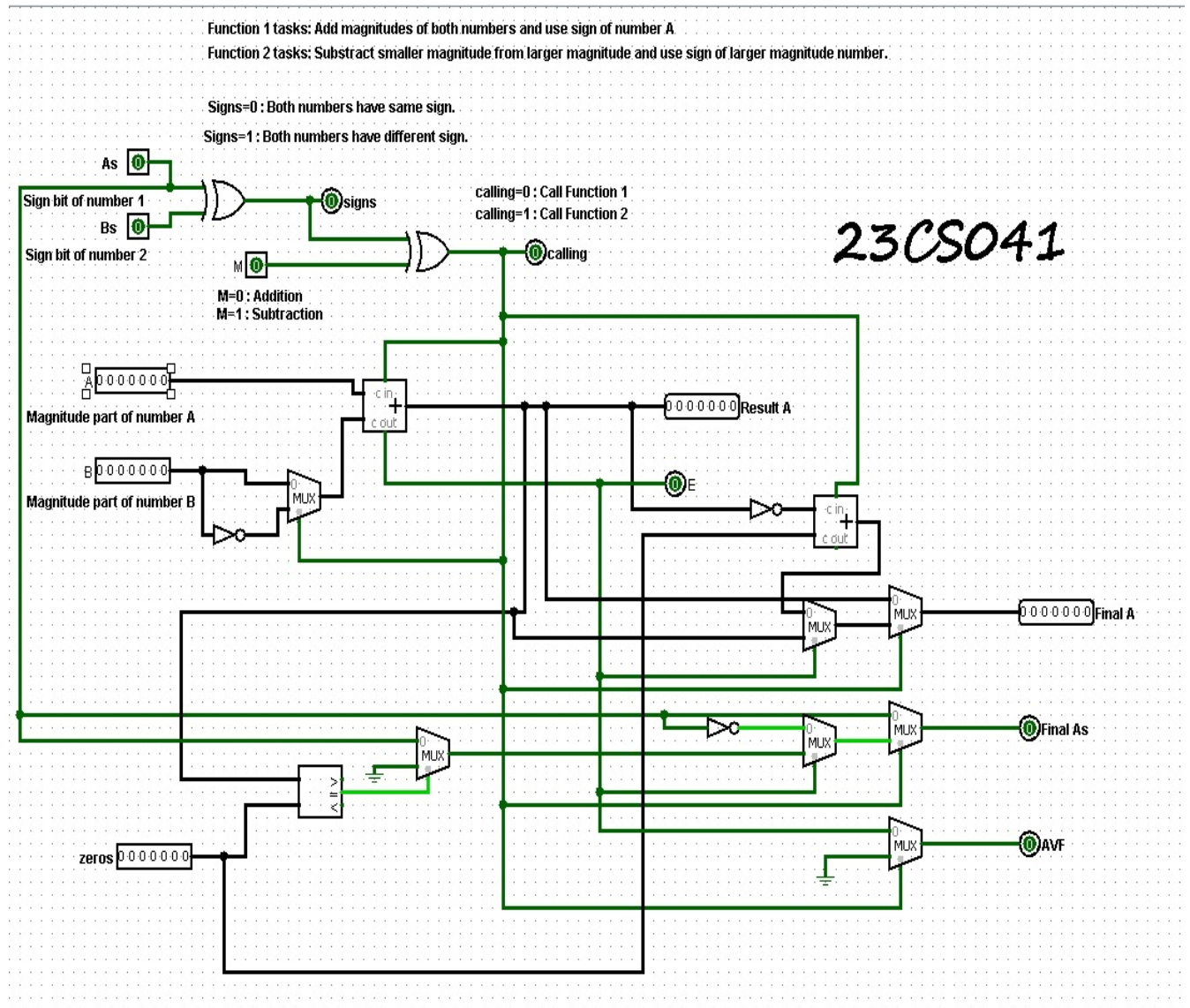


Date:

## **EXPERIMENT NO. 2**

**AIM: Implement a circuit in Logisim which perform Addition and Subtraction of sign number.**

**ALGORITHM:**

**CIRCUITS:**

**OUTPUTS:**

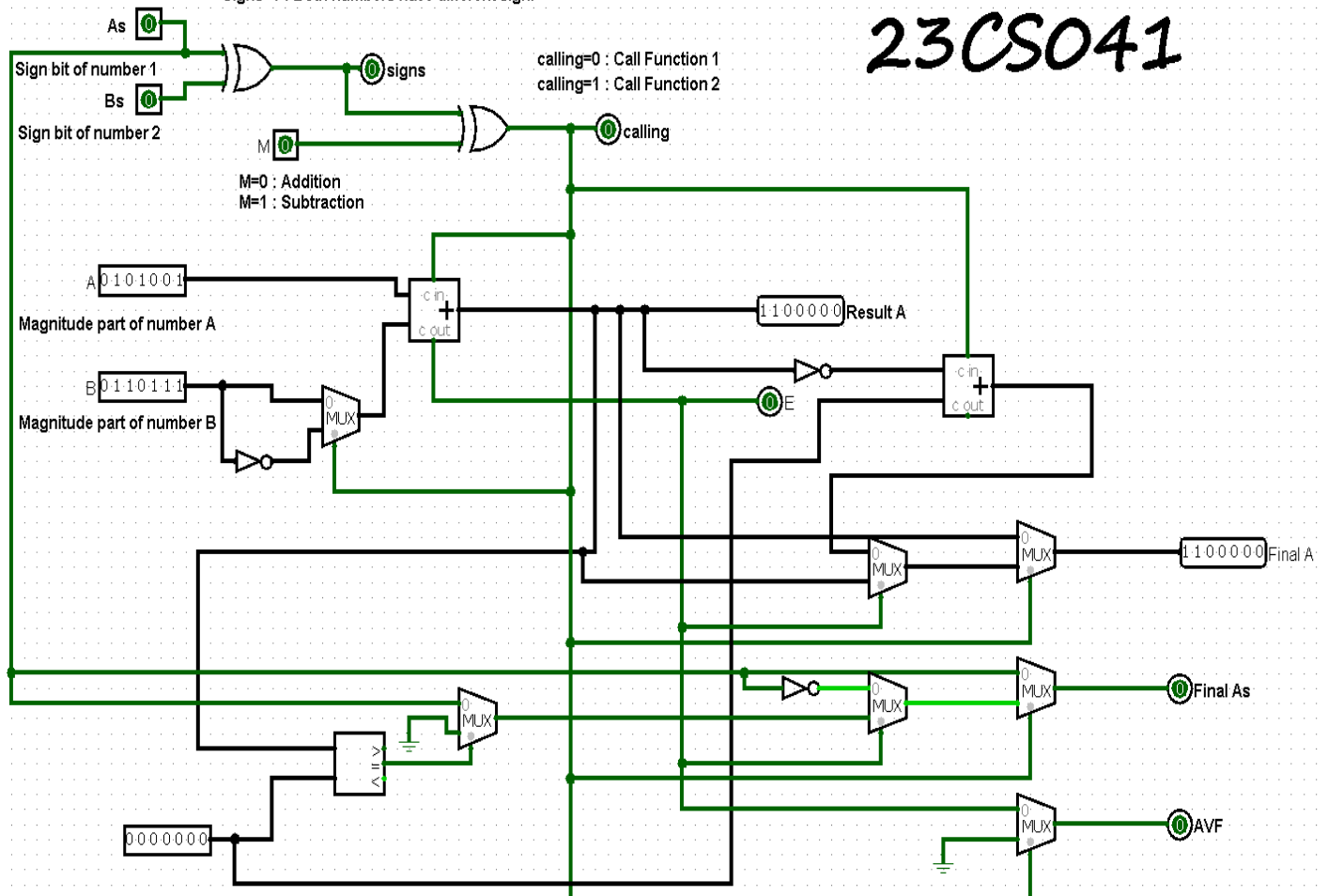
1.

Function 1 tasks: Add magnitudes of both numbers and use sign of number A

Function 2 tasks: Subtract smaller magnitude from larger magnitude and use sign of larger magnitude number.

Signs=0 : Both numbers have same sign.

Signs=1 : Both numbers have different sign.



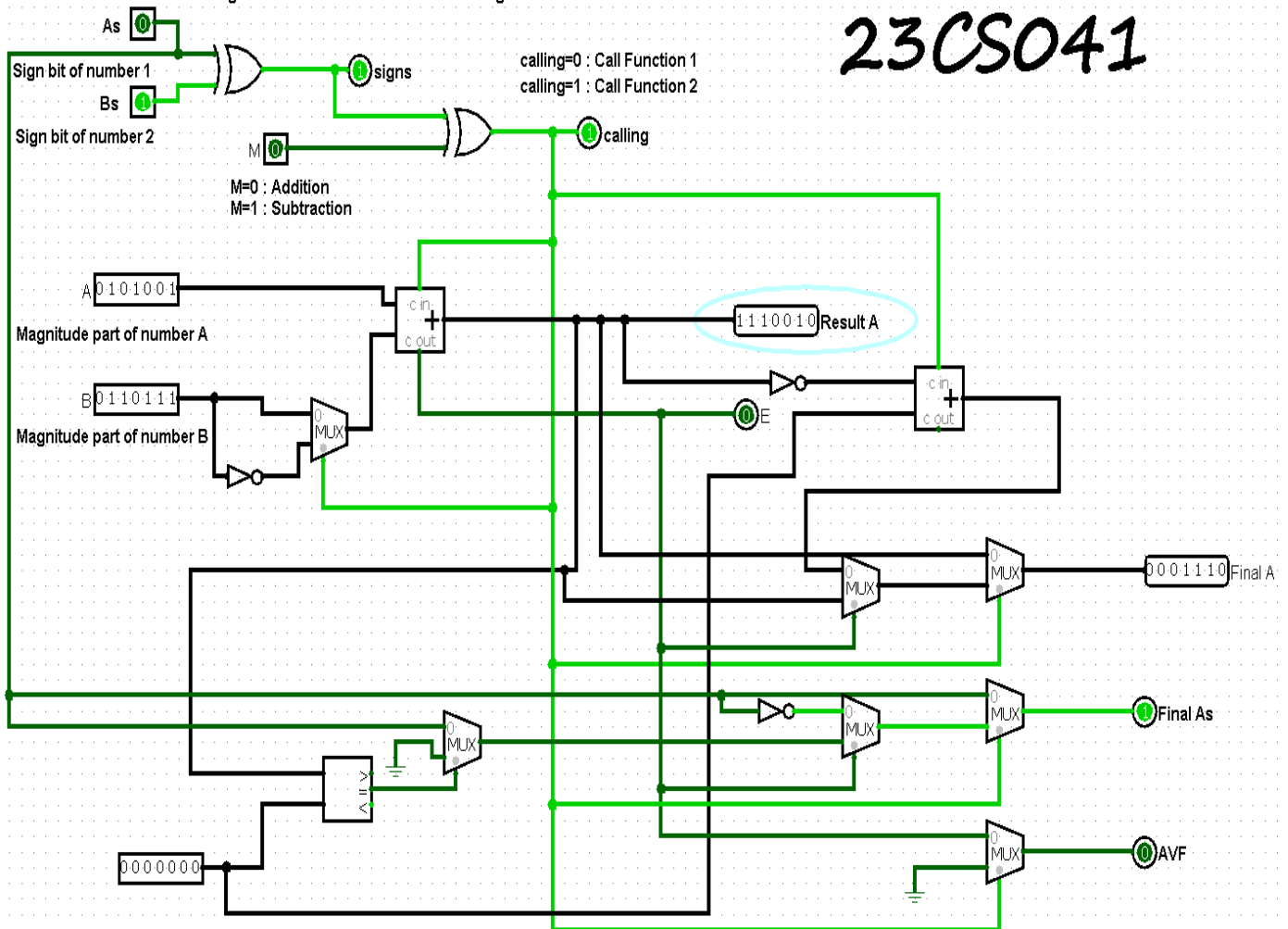
2.

Function 1 tasks: Add magnitudes of both numbers and use sign of number A

Function 2 tasks: Subtract smaller magnitude from larger magnitude and use sign of larger magnitude number.

Signs=0 : Both numbers have same sign.

Signs=1 : Both numbers have different sign.



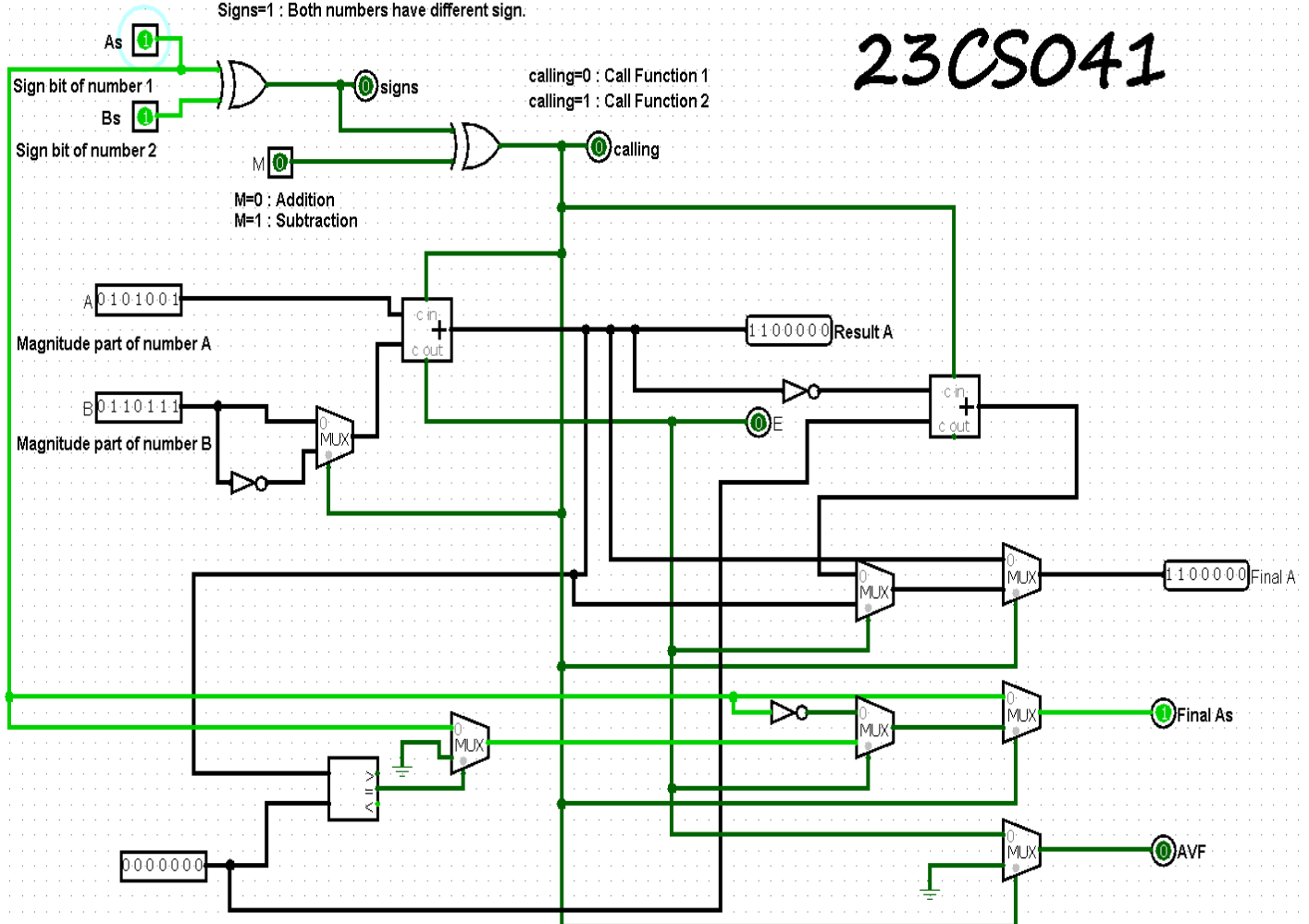
3.

Function 1 tasks: Add magnitudes of both numbers and use sign of number A.

Function 2 tasks: Subtract smaller magnitude from larger magnitude and use sign of larger magnitude number.

Signs=0 : Both numbers have same sign.

Signs=1 : Both numbers have different sign.



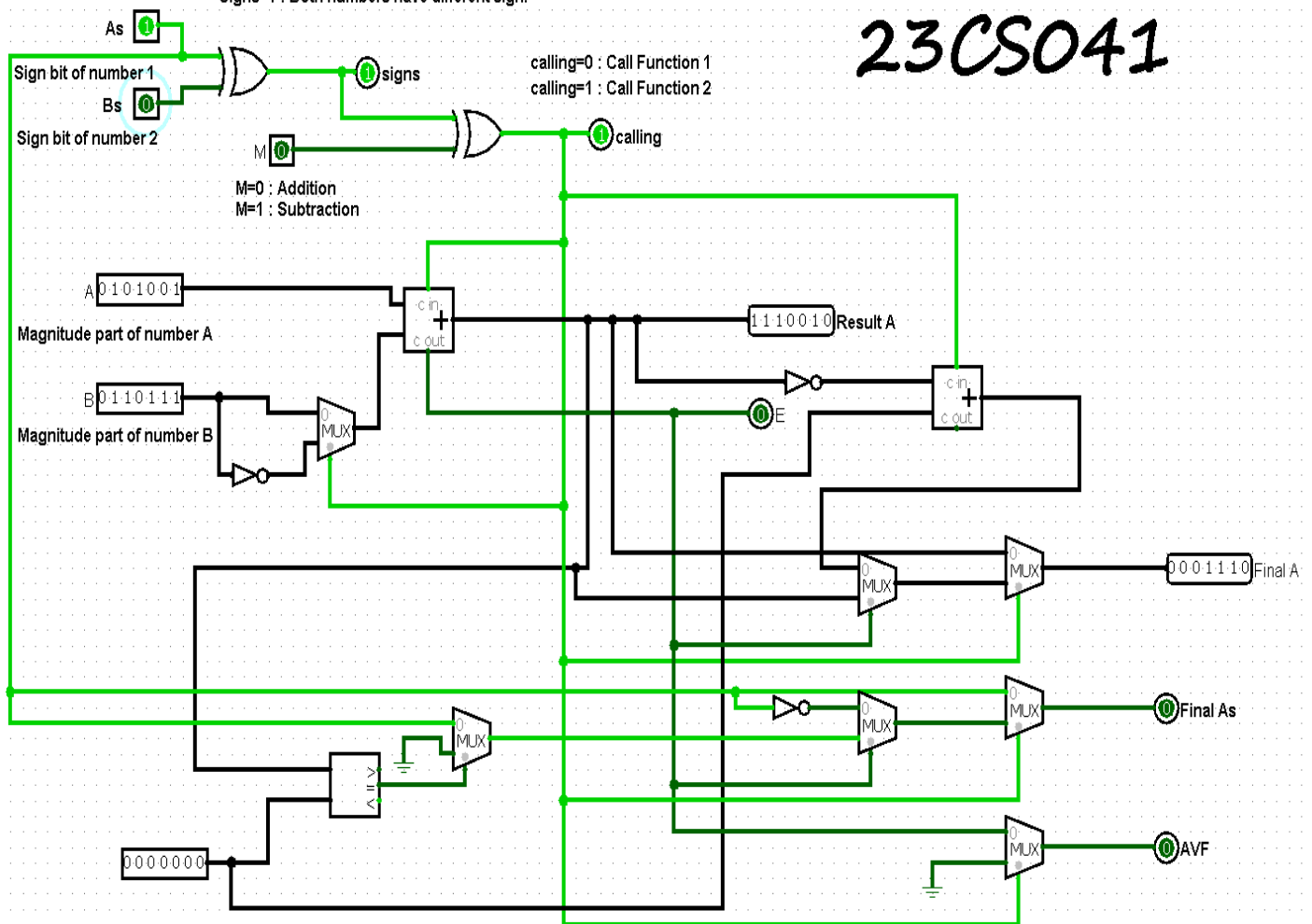
4.

Function 1 tasks: Add magnitudes of both numbers and use sign of number A

Function 2 tasks: Subtract smaller magnitude from larger magnitude and use sign of larger magnitude number.

Signs=0 : Both numbers have same sign.

Signs=1 : Both numbers have different sign.



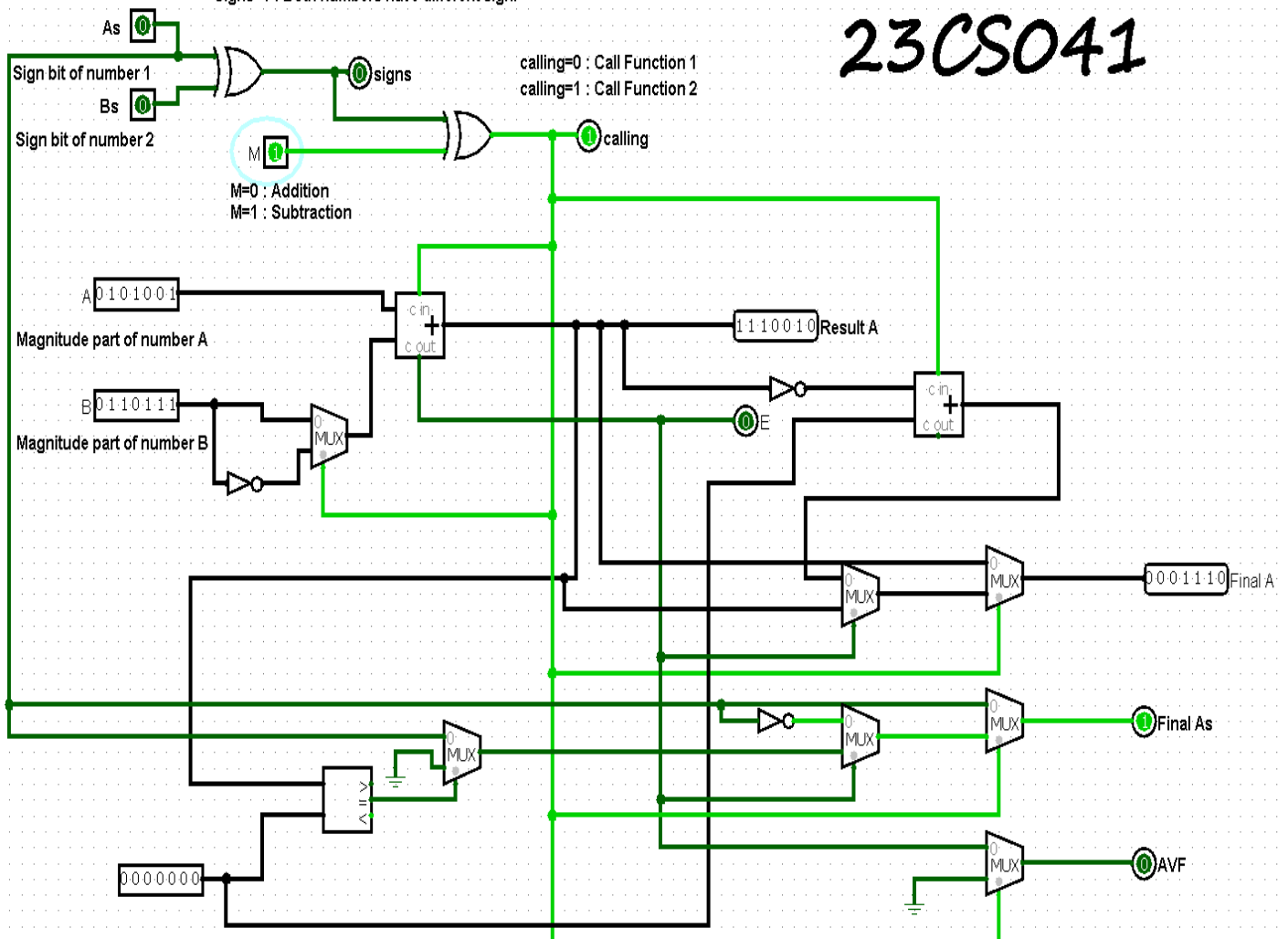
5.

Function 1 tasks: Add magnitudes of both numbers and use sign of number A

Function 2 tasks: Subtract smaller magnitude from larger magnitude and use sign of larger magnitude number.

Signs=0 : Both numbers have same sign.

Signs=1 : Both numbers have different sign.



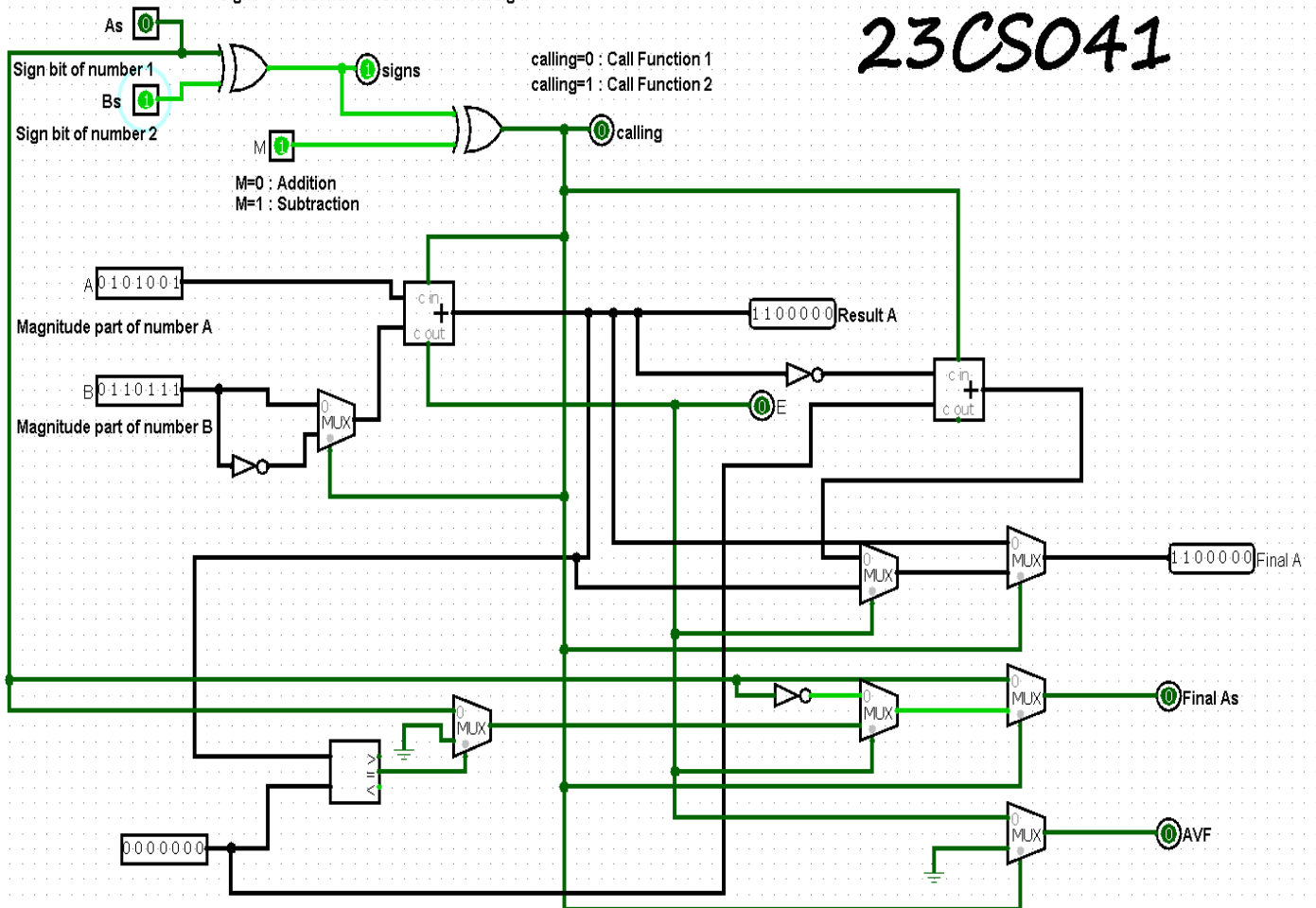
6.

Function 1 tasks: Add magnitudes of both numbers and use sign of number A

Function 2 tasks: Subtract smaller magnitude from larger magnitude and use sign of larger magnitude number.

Signs=0 : Both numbers have same sign.

Signs=1 : Both numbers have different sign.





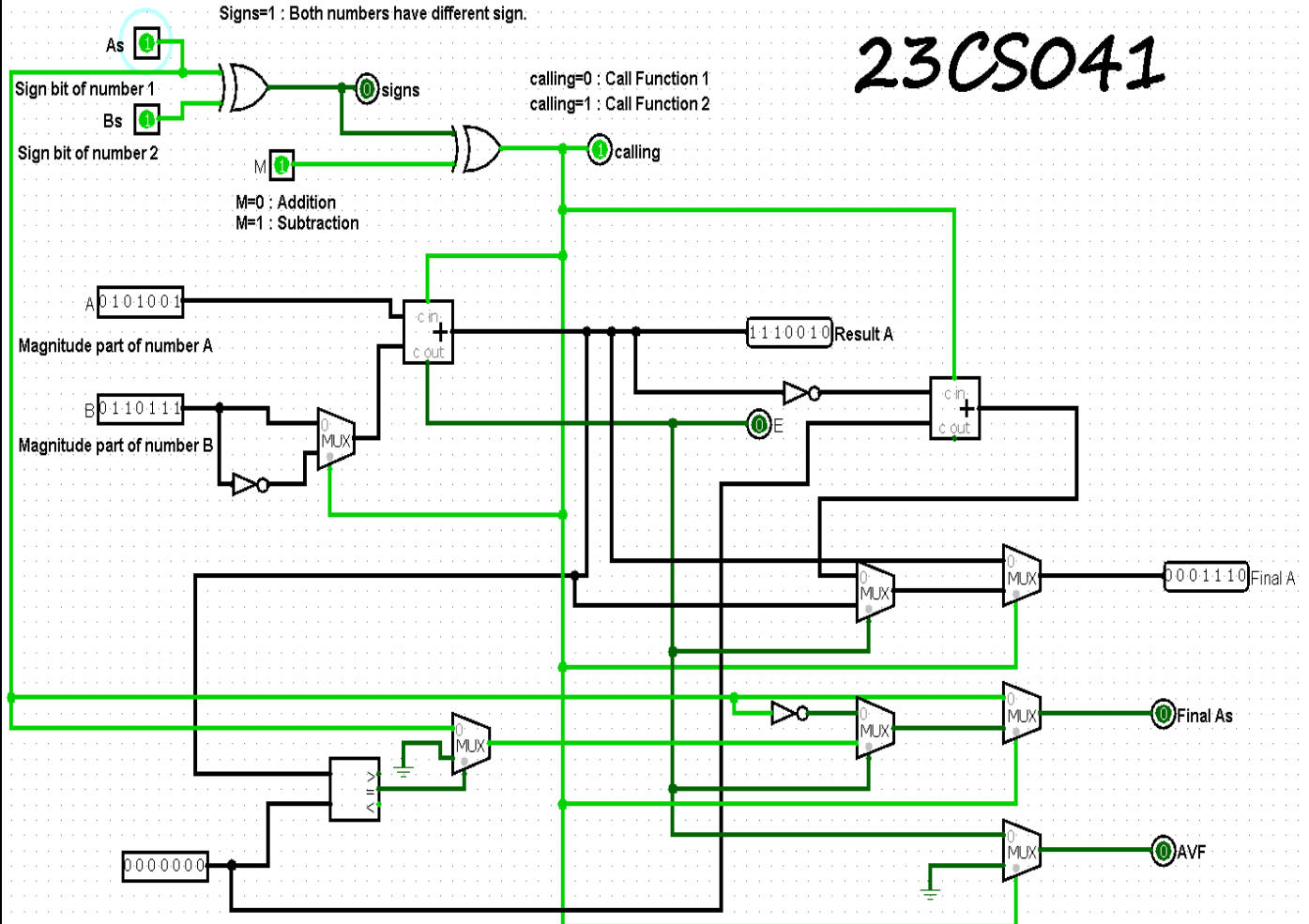
7.

Function 1 tasks: Add magnitudes of both numbers and use sign of number A

Function 2 tasks: Subtract smaller magnitude from larger magnitude and use sign of larger magnitude number.

Signs=0 : Both numbers have same sign.

Signs=1 : Both numbers have different sign.



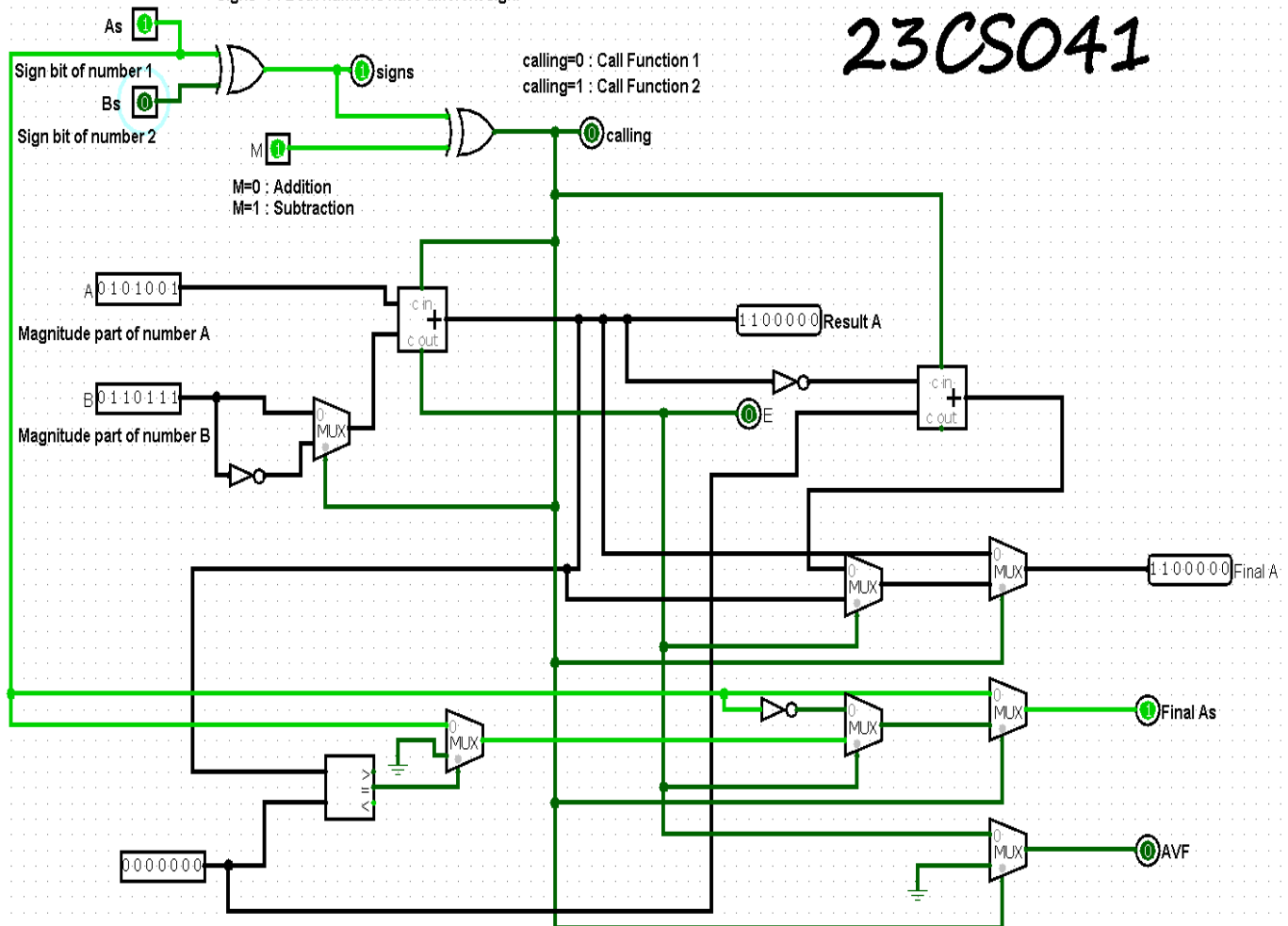
8.

Function 1 tasks: Add magnitudes of both numbers and use sign of number A

Function 2 tasks: Subtract smaller magnitude from larger magnitude and use sign of larger magnitude number.

Signs=0 : Both numbers have same sign.

Signs=1 : Both numbers have different sign.



**CONCLUSION:**