

**Project Name:** BCD to 7 Segment display

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**Section:** BS-CS ©

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*Introduction:*

BCD to 7 segment display is a setup that converts binary numbers to decimal on the basis of inputs given by the user and simply displays that decimal number on 7 segment display.

*BCD:*

****BCD**** stands for ****binary coded decimal****. It is a digital numbering system in which we can represent each decimal number using 4 bits of binary numbers.

*Apparatus Required:*

- Trainer

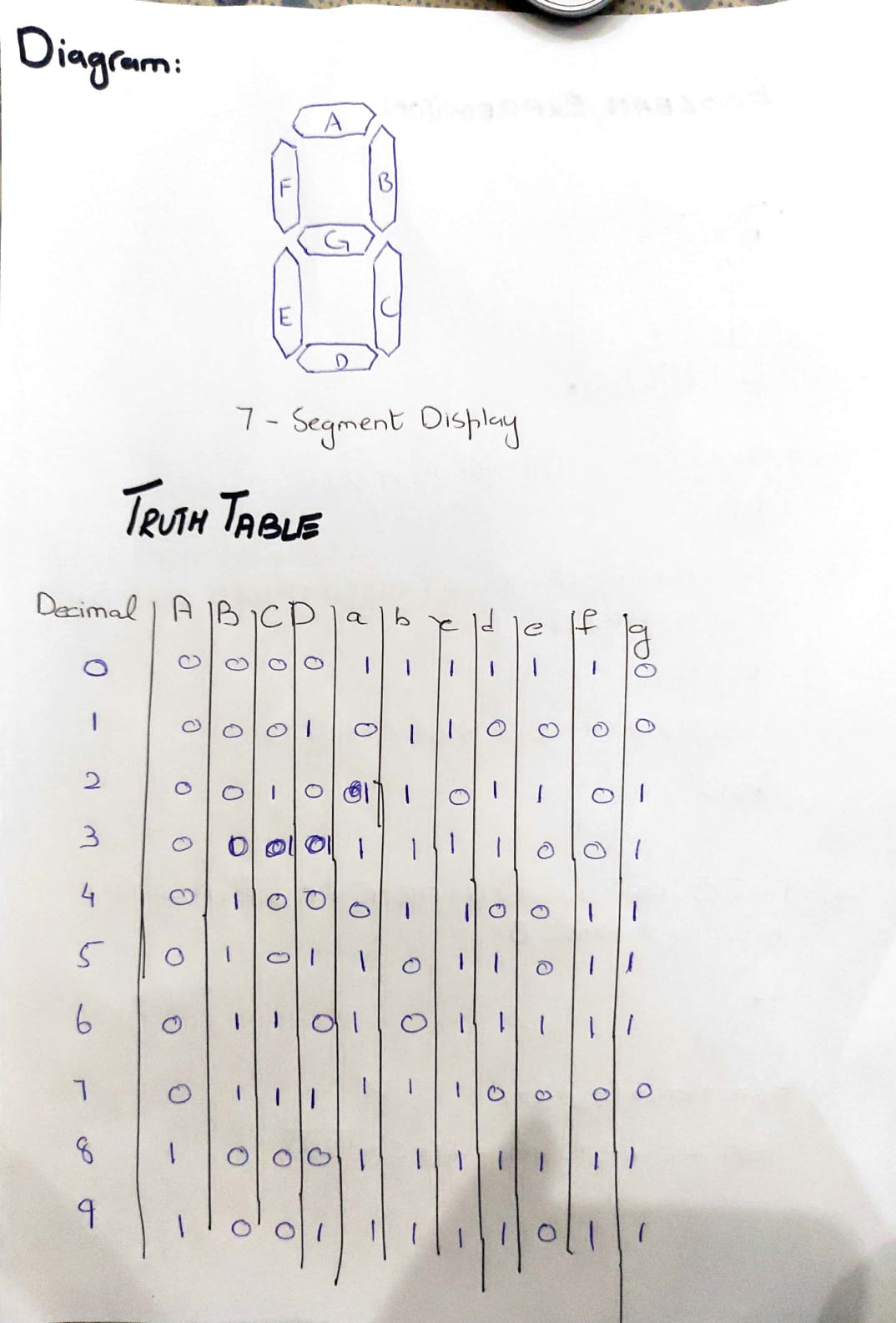
- Breadboard

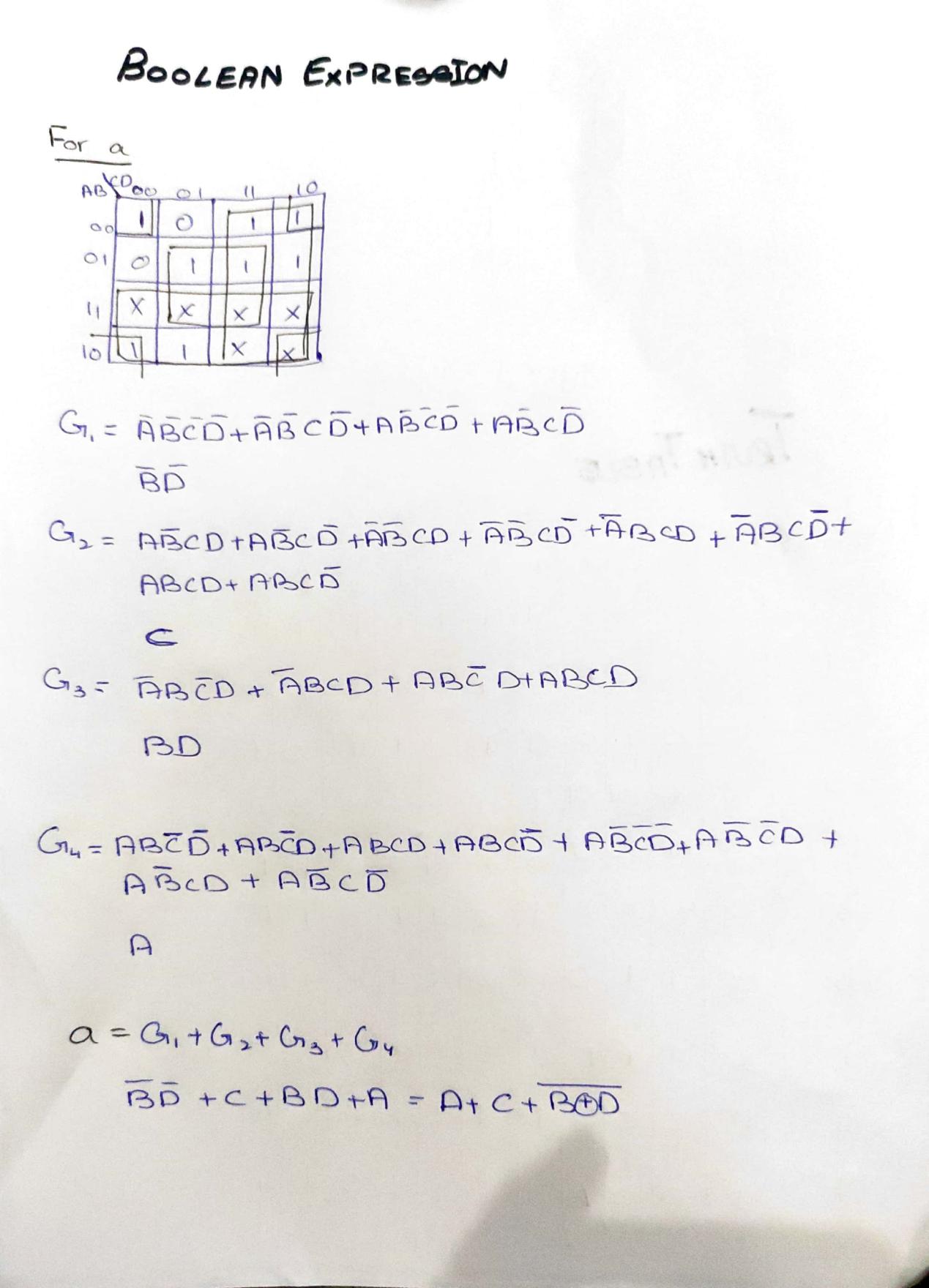
- ICs (AND,OR,NOT)

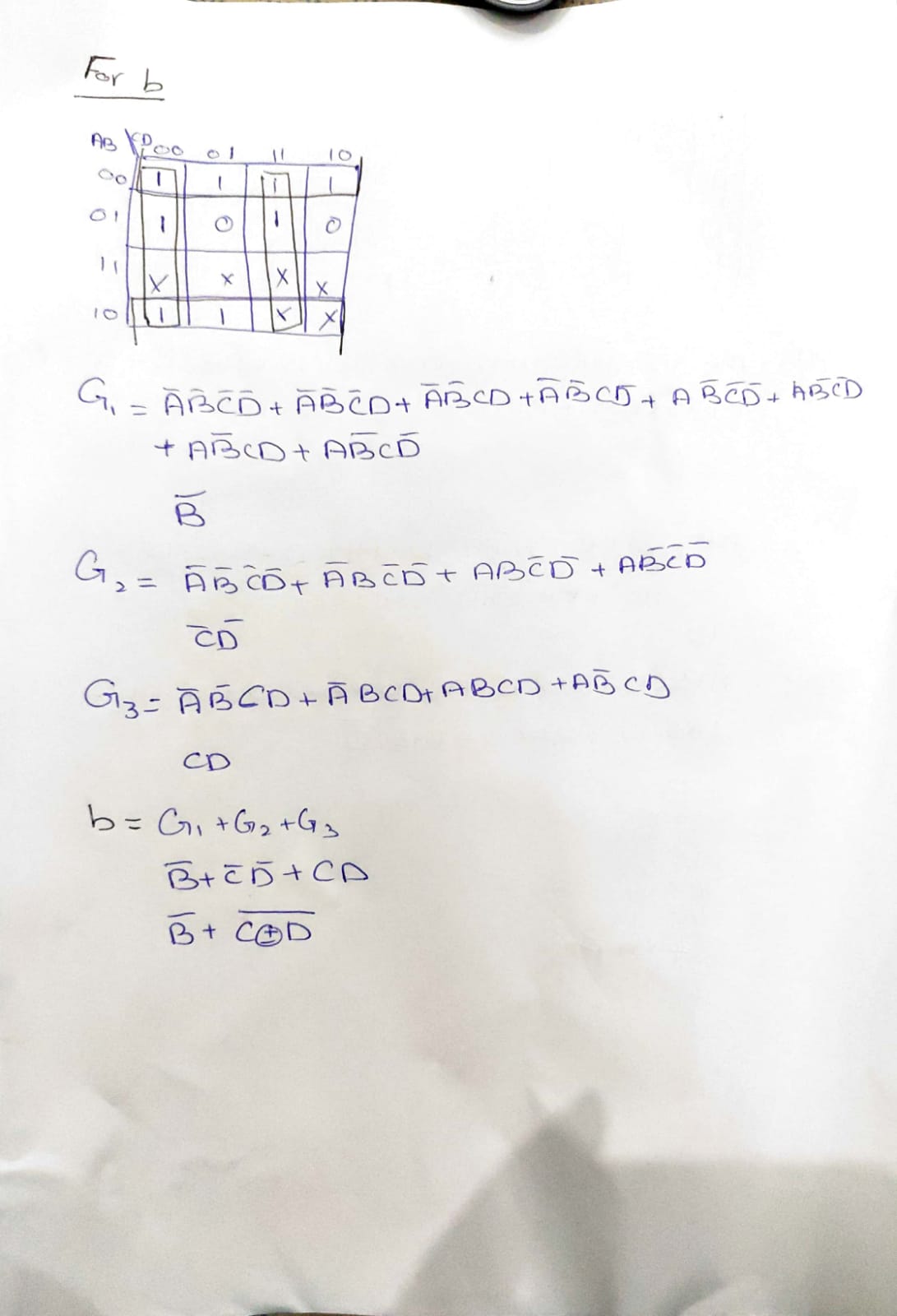
- Wires

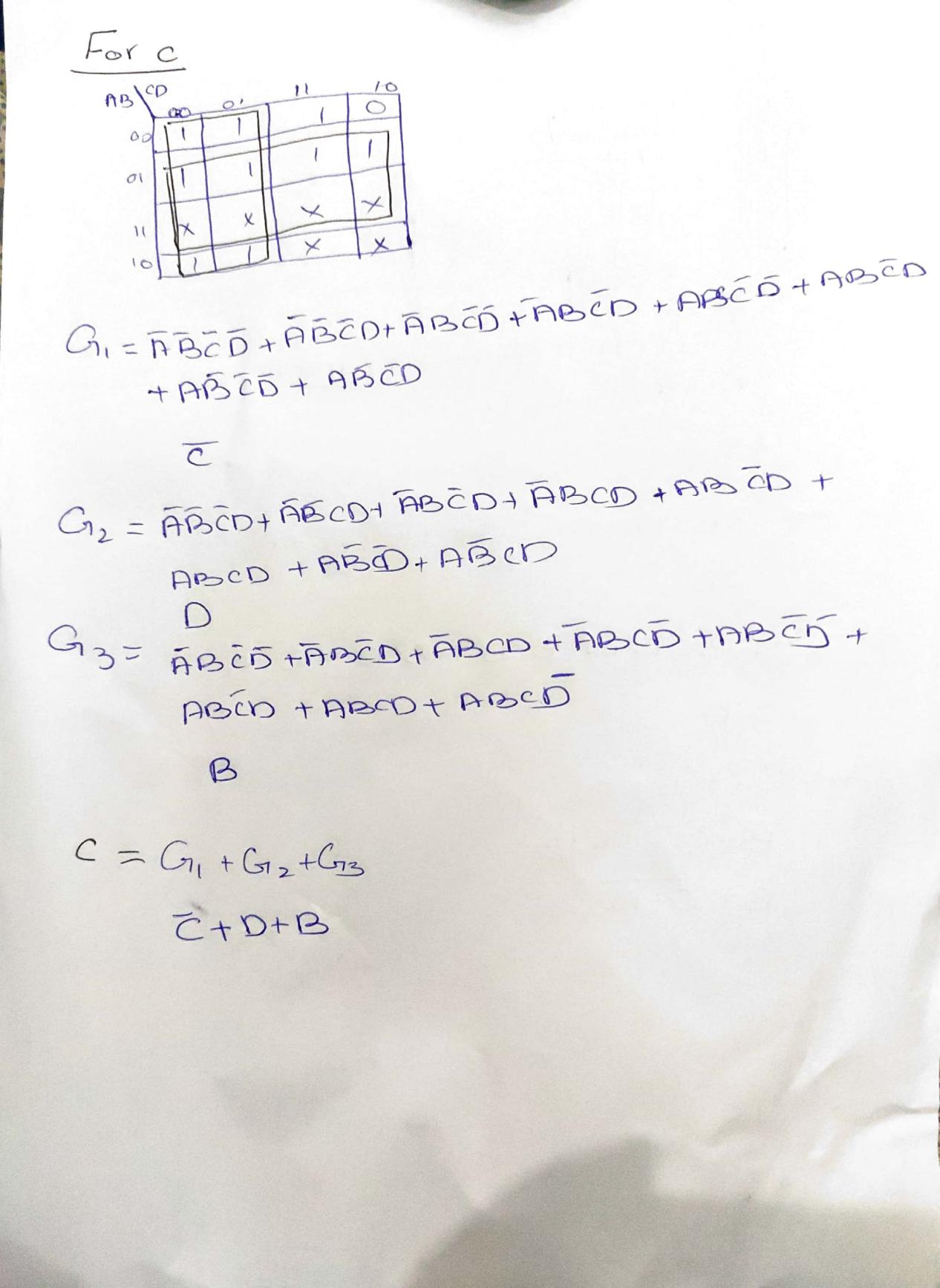
- 7 segment display

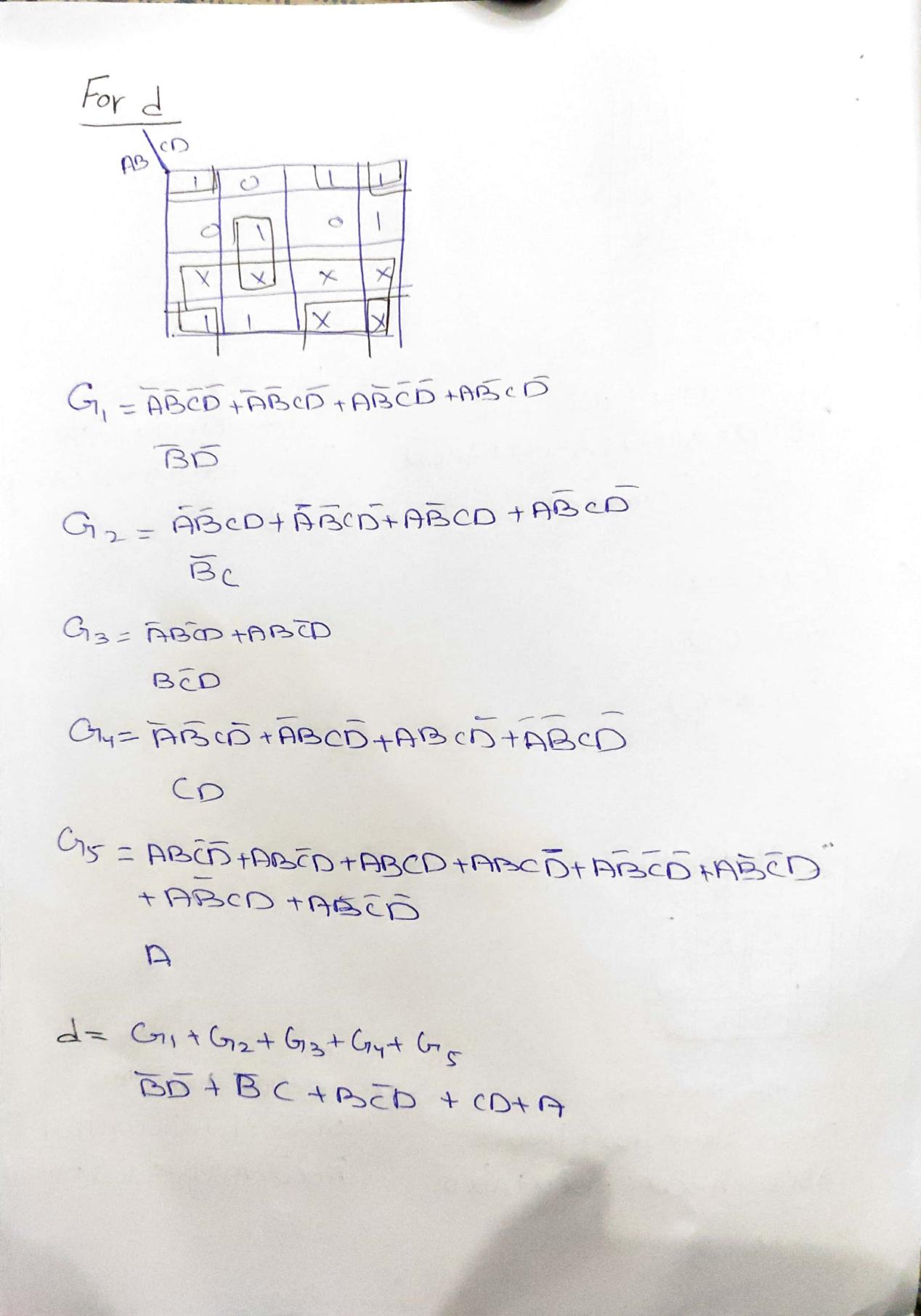
*Explanation:*

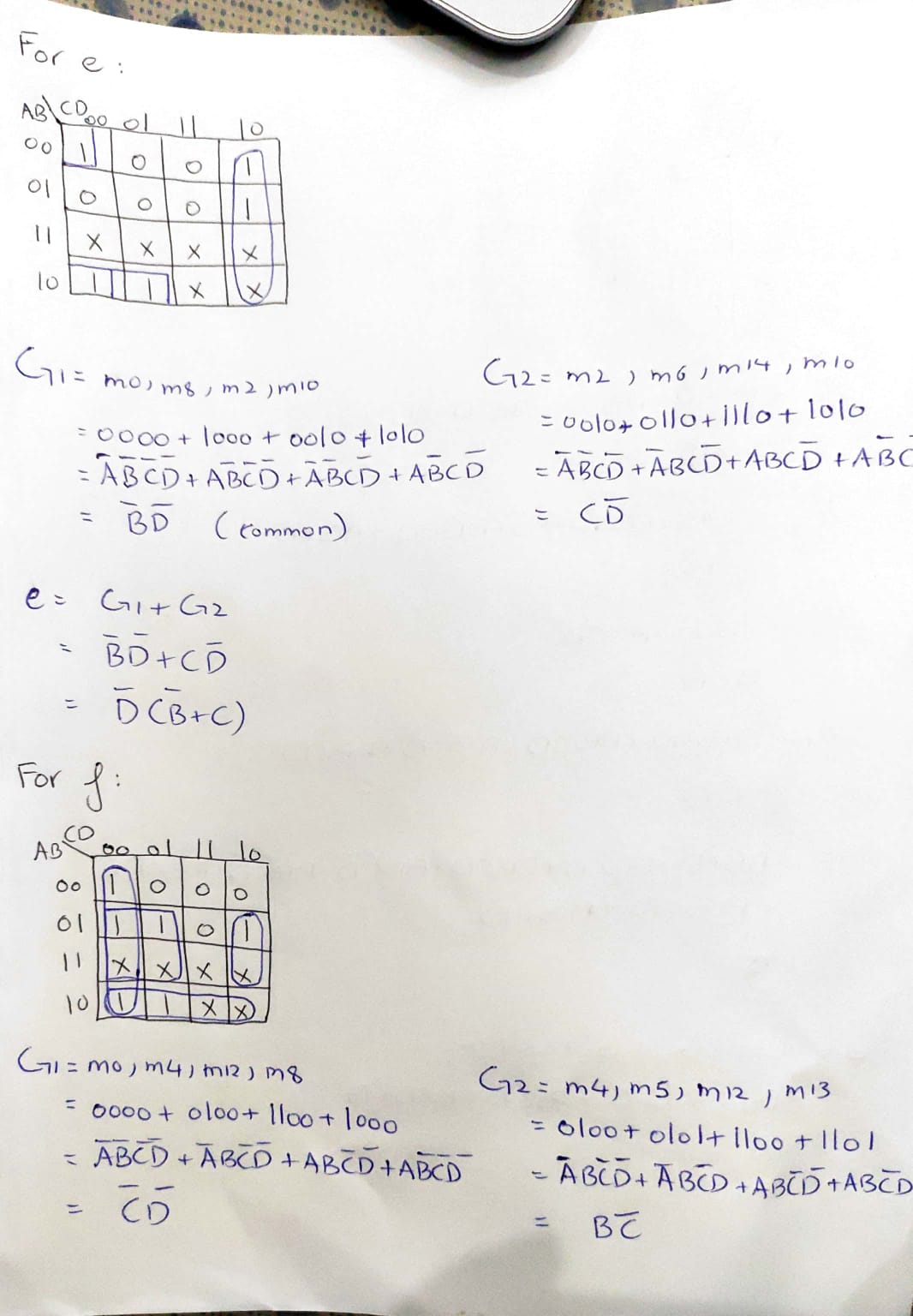
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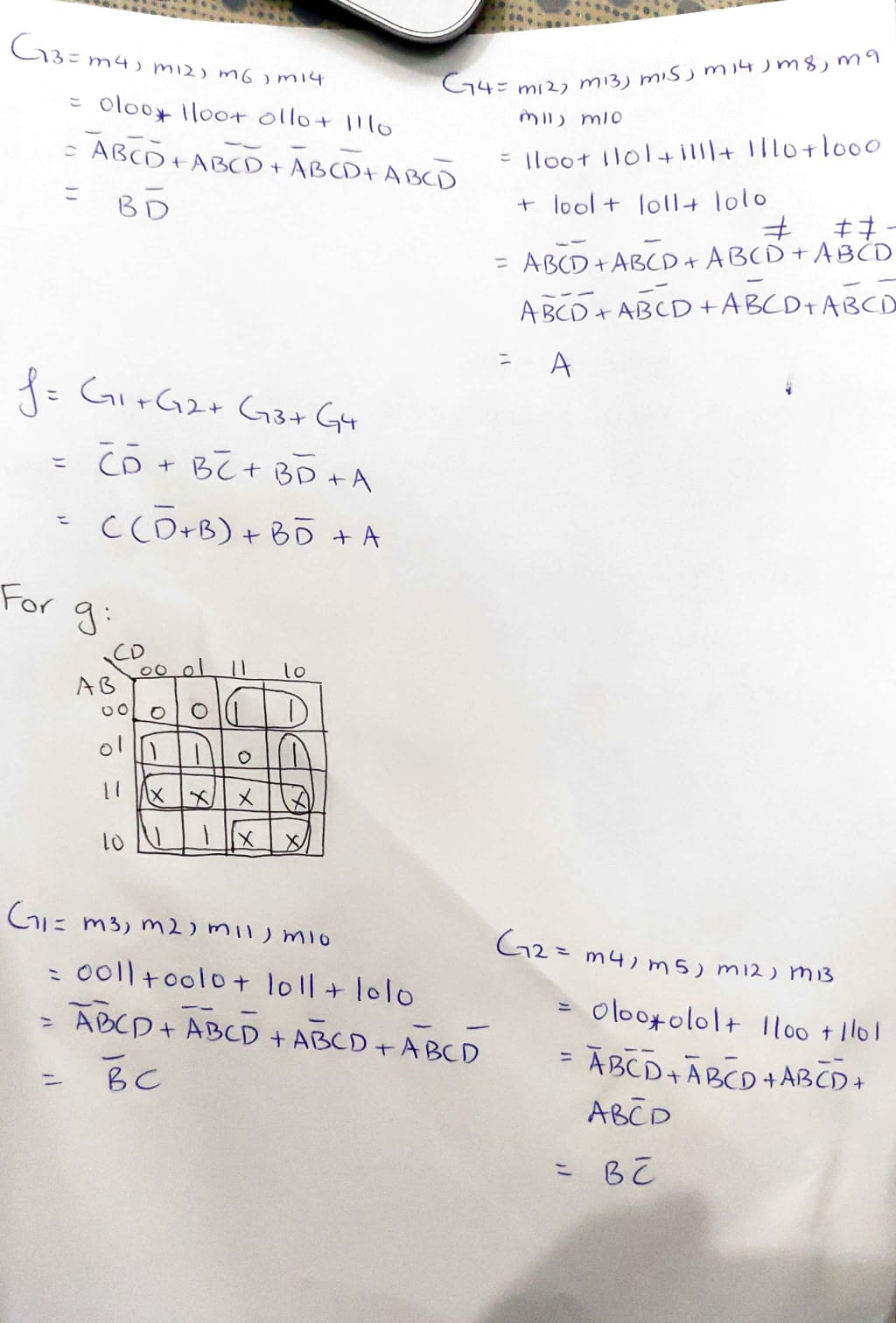


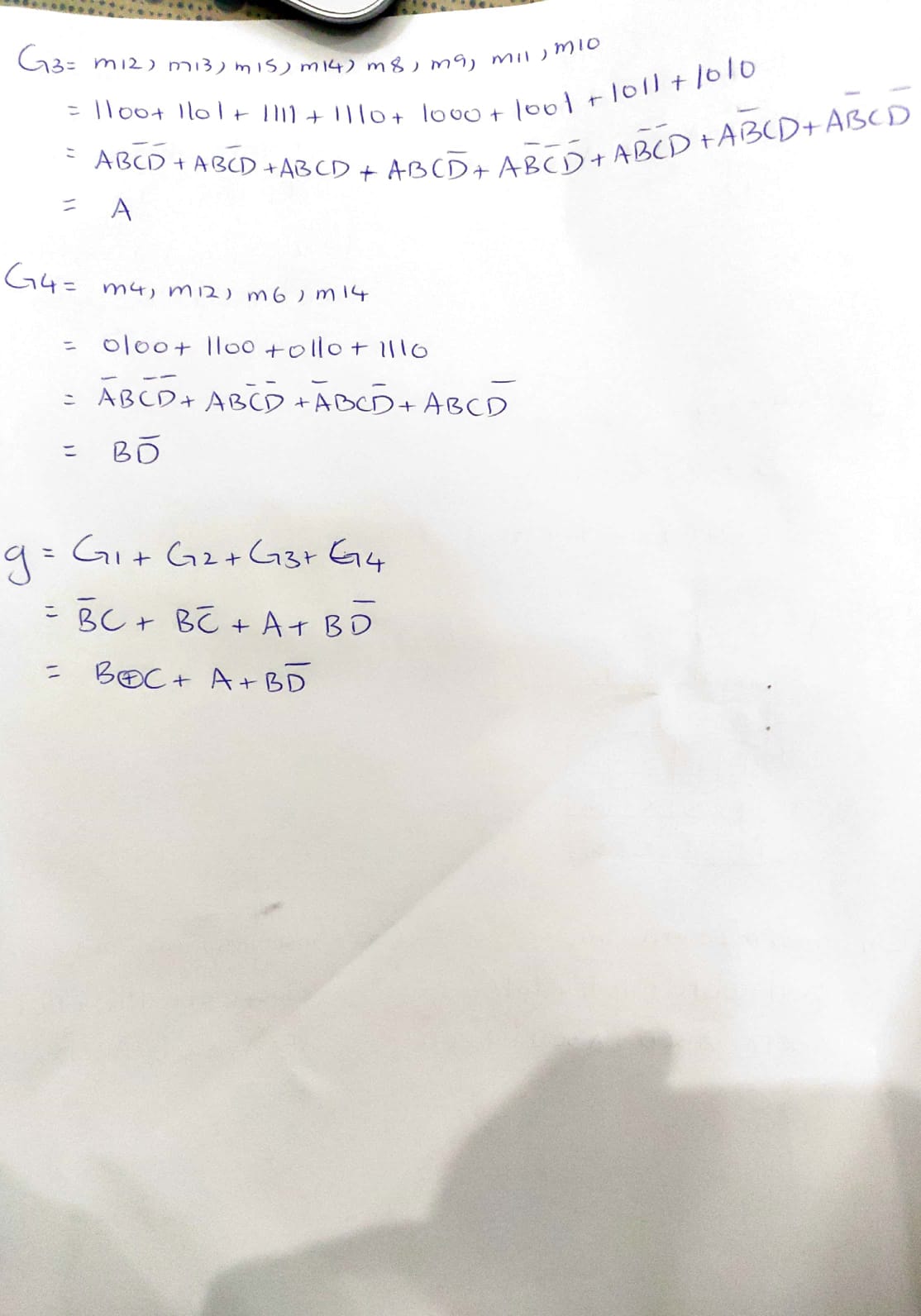








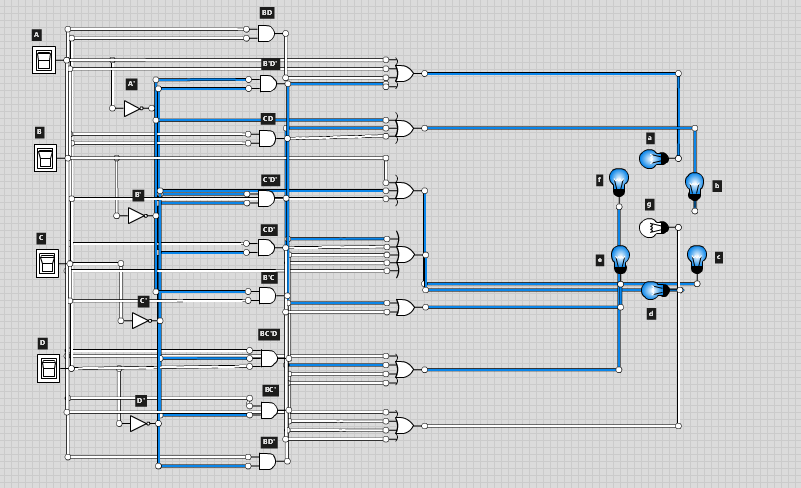




*Diagram:*

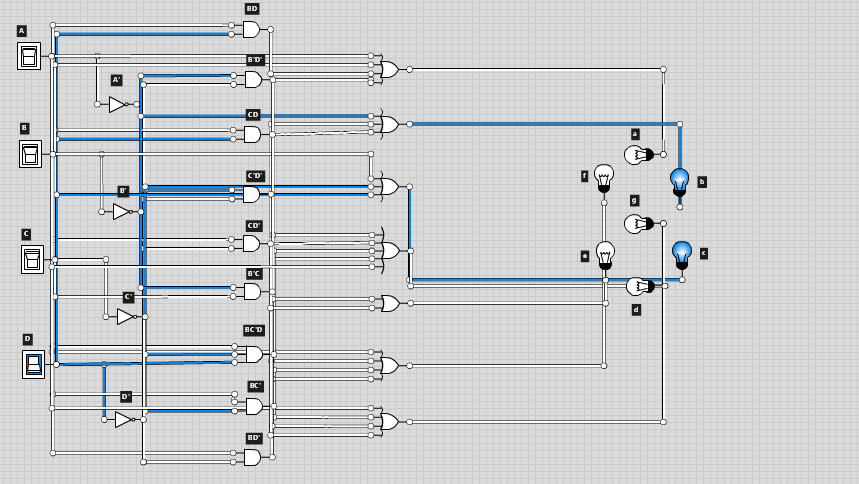
For 0:

We will turn on a,b,c,d,e,f in order to get 0.



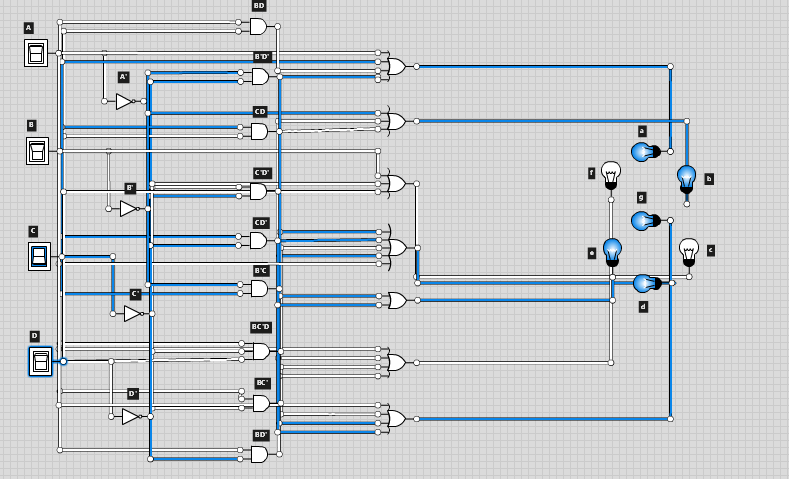
For 1:

We will turn on b,c for 1.



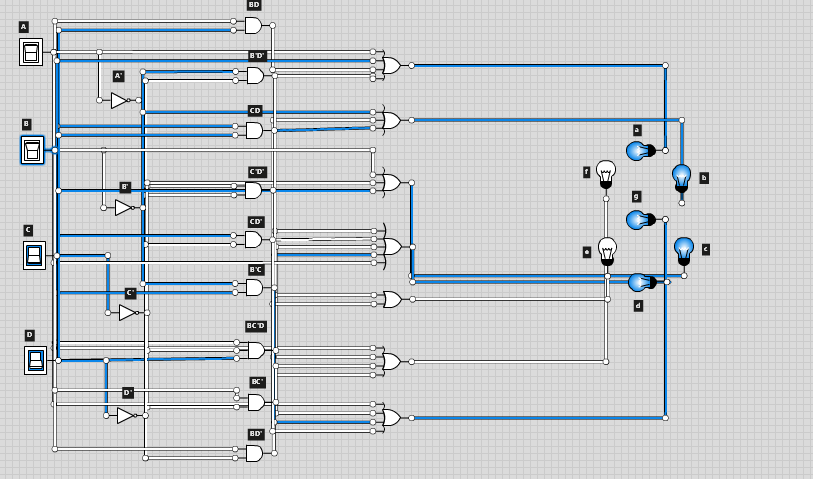
For 2:

We will turn on  a, b, d, e, g.for 2.



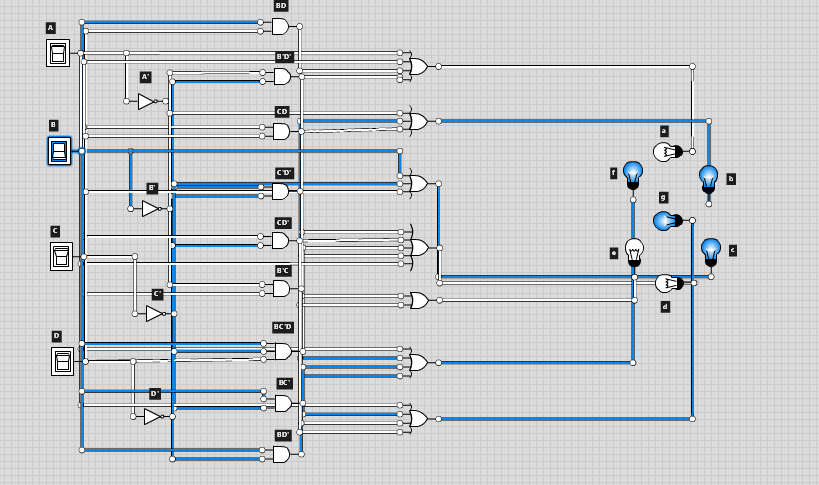
For 3:

We will turn on a, b, c, d, g.for 3.



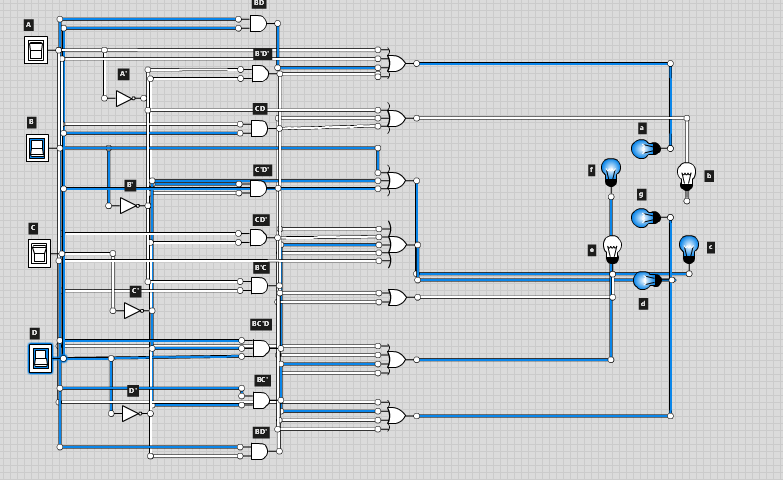
For 4:

We will turn on b, c, f, g.for 4.



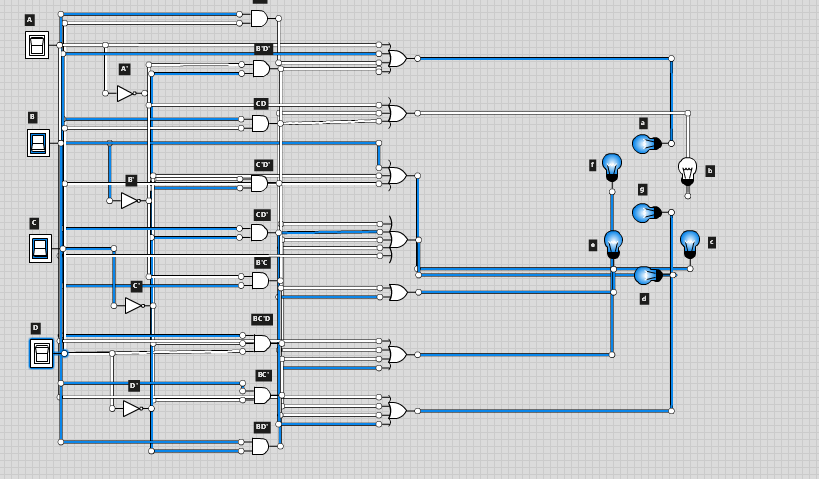
For 5:

We will turn on a, c, d, f, g.for 5.



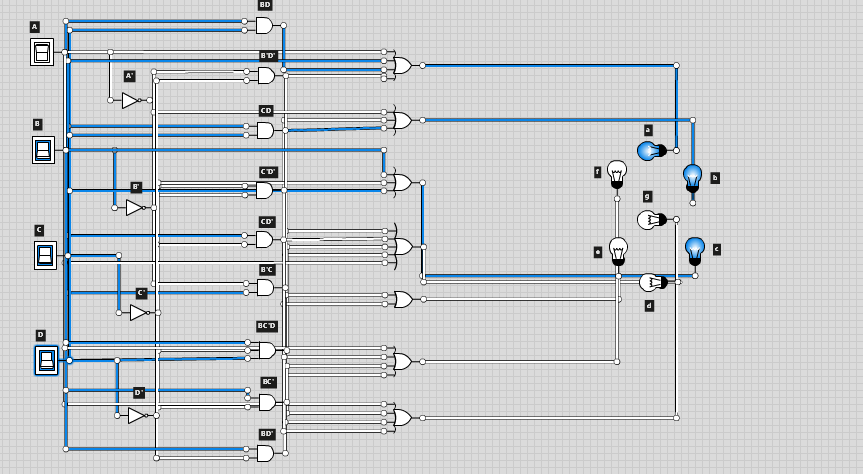
For 6:

We will turn on a, c, d, e, f, g for 6.



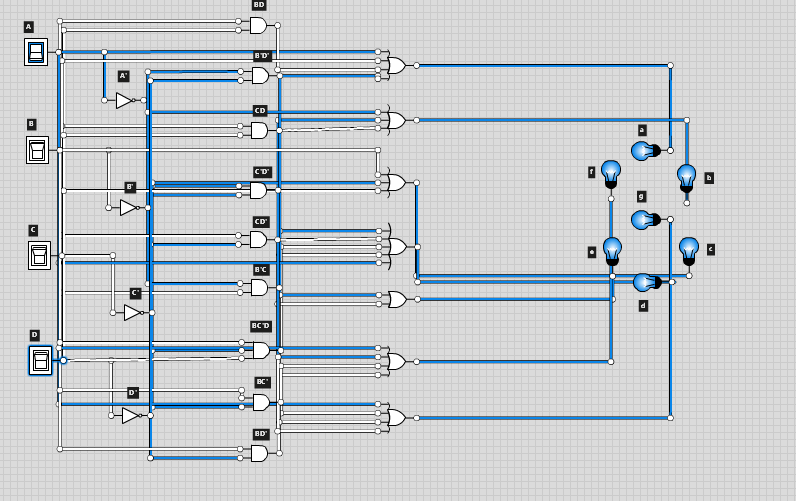
For 7:

We will turn on a, b, c for 7.



For 8:

We will turn on a, b, c, d, e, g for 8.



For 9:

We will turn on a, b, c, d, f, g for 9.

