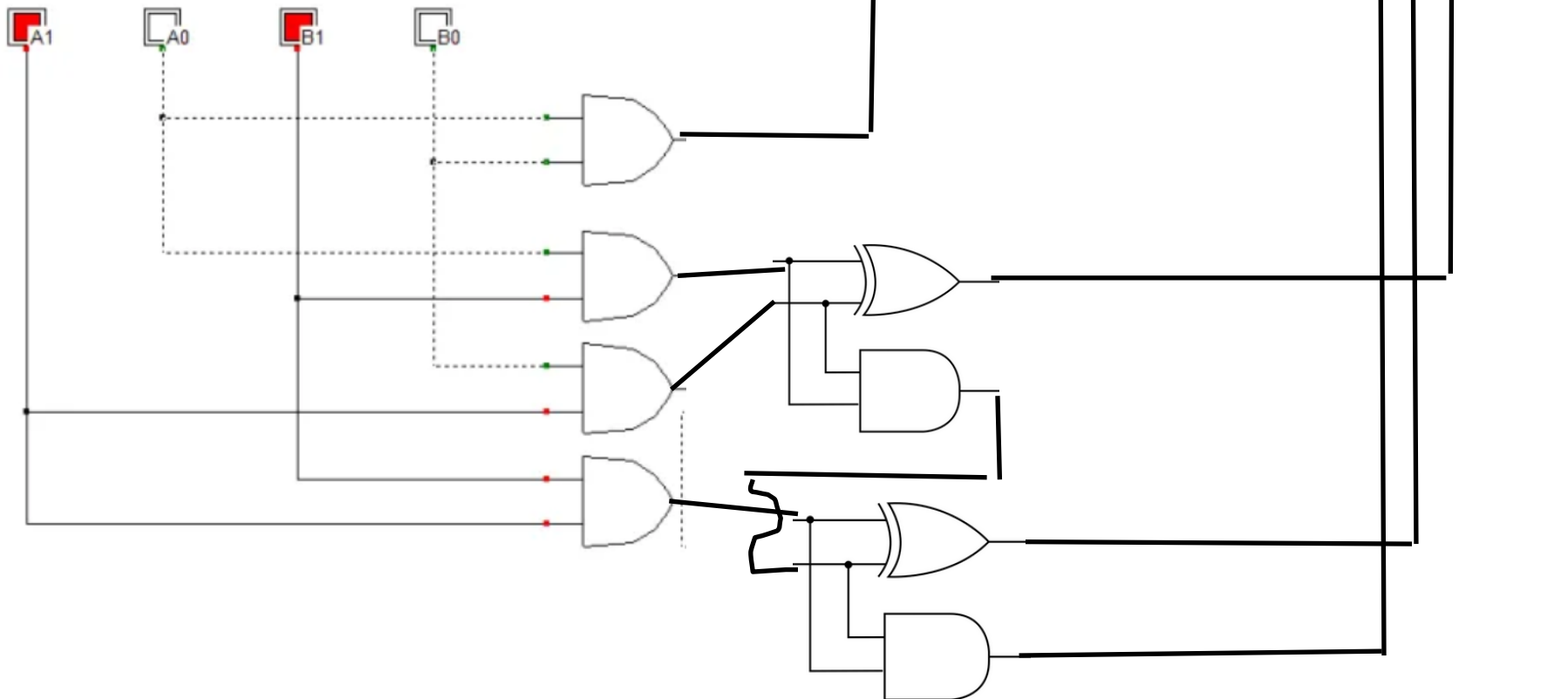Problem 1;

A= 1 , B =2

Place binary output value after **EVERY** gate to trace through this logic circuit.

Place the binary answer in display.

What specific type of logic circuit is this?
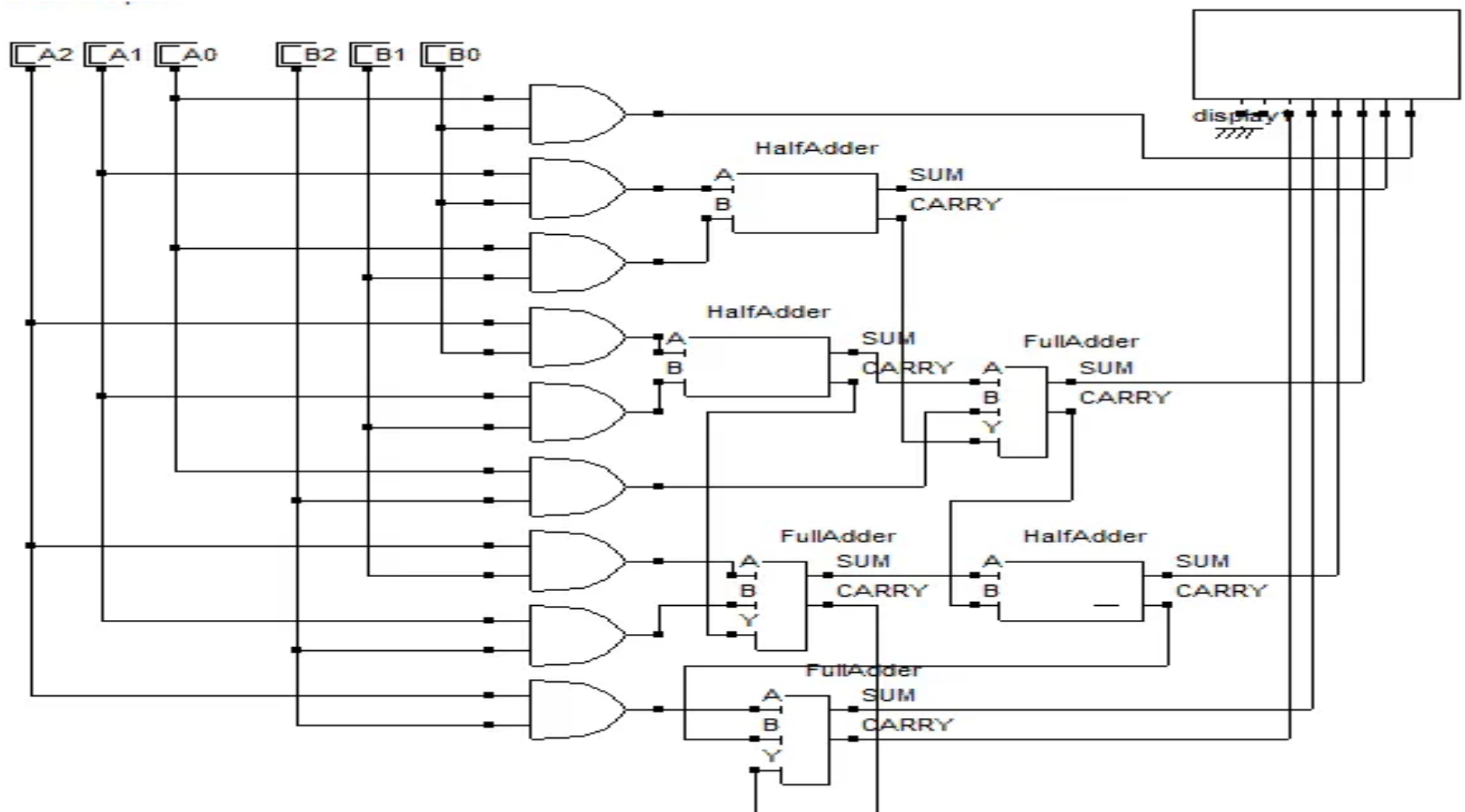
_____

display1

A1   A0   B1   B0

Problem 2;

A= 7 , B =4

Place binary output value after **EVERY** gate to trace through this logic circuit.

Place binary answer in display.

What specific type of logic circuit is this? _____

Problem 3;

Build a combinational circuit for a base 4 to binary encoder AND a binary to base 4 decoder.

Create truth tables, Boolean expression for each output, and logic diagram

I_3 ⟶

I_2 ⟶ **Encoder** ⟶ O_1

I_1 ⟶ ⟶ O_0

I_0 ⟶

Decoder