Hatt-Subtractor:

A harf Subtractor performs Subtraction of two-binary numbers (digits, bits).

The outputs the difference and the borrow that may occur during the Subtraction process.

the half subtractor takes two binary inputs:

A: Minuend (the number from which another number is subtracted).

B: Subtrahend (the number to be subtracted)

outputs:

The half subtractor produces two outputs

1. Difference (D): This represents the result of

A-B

- a. Borrow (Bo): This indicates whether a borrow was needed during the Subtraction.
- -> A bossow occurs when the minuend (4) is less than Subtrahend (B)

Truth-table :

A	В	Difference (0)	Borrow (Bo)
0	0	O	0
0	1	1	
l	0	1	/
	,		0
1	,	Ó	0

Bodean Expression:

D = A &B

Bo = AB

Grate-level implementation:

