## COMPUTER ARITHMETIC

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## COMPUTER ARITHMETIC

- Arithmetic means the operation with operand.
- Like
- ADDITION ( + )
- SUBTRACTION ( - )
- MULTIPLICATION (*)
- DIVIDE ( / )


## Hardware for signed-magnitude addition and subtraction




Figure 10-2 Flowchart for add and subtract operations.


- For Example of Addition
- $\quad(+1)+(+2)$
$(+\mathrm{A})+(+\mathrm{B})$

- $(-1)+(+2)$
$(-\mathrm{A})+(+\mathrm{B})$



Figure: Hardware for signed-2's complement addition and subtraction.

Multiply operation
Multiplicand in B Multiplier in Q


Figure: Flowchart for multiply operation.

## - <br> THANK YOU

