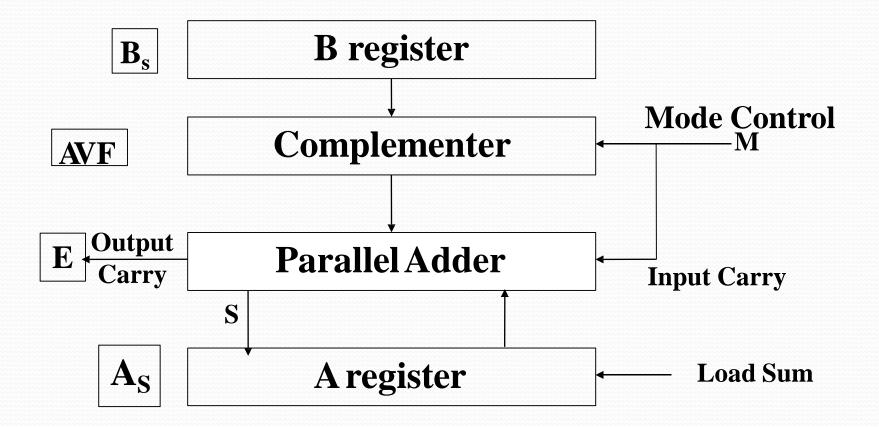
## COMPUTER ARITHMETIC PREPARED BY R.SRINIVAS ASST.PROT ECE

### **COMPUTER ARITHMETIC**

• Arithmetic means the operation with operand.

- Like
  - ADDITION (+)
  - SUBTRACTION ( )
  - MULTIPLICATION (\*)
  - **DIVIDE** ( / )

# Hardware for signed-magnitude addition and subtraction



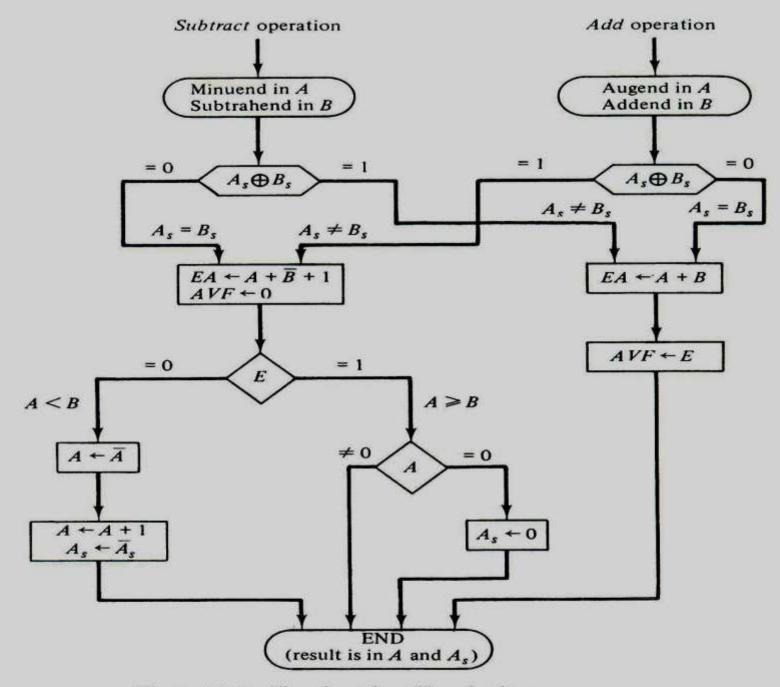
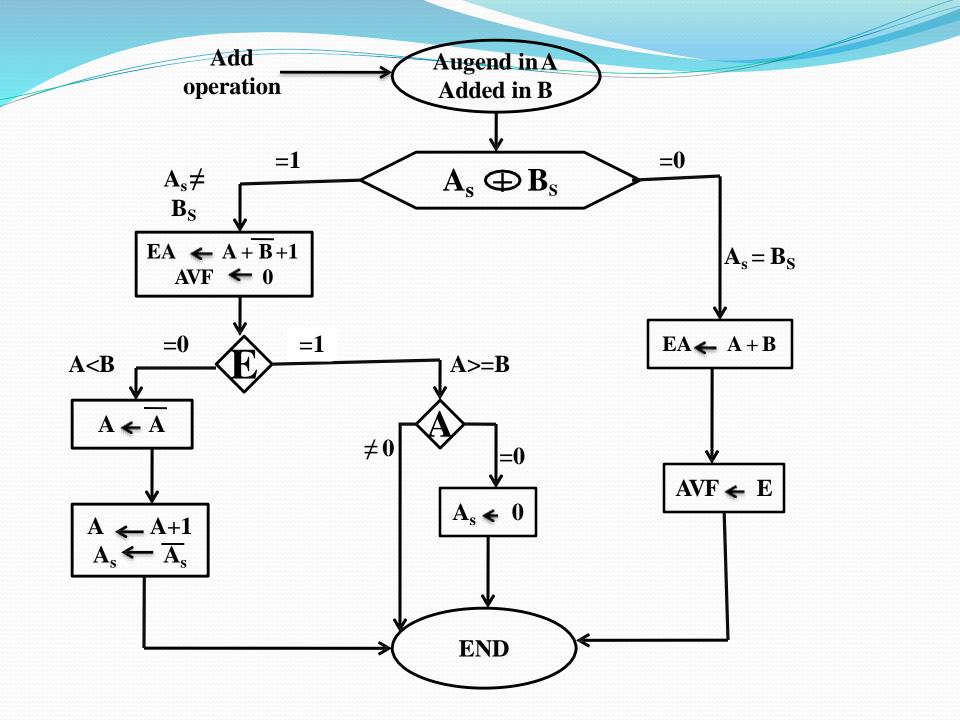
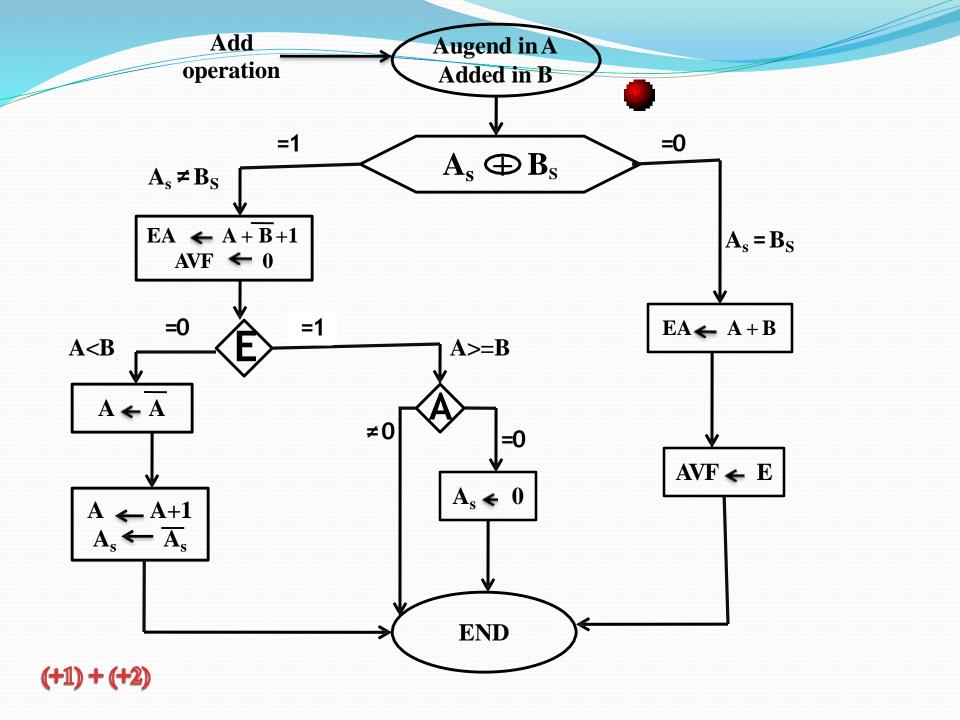


Figure 10-2 Flowchart for add and subtract operations.



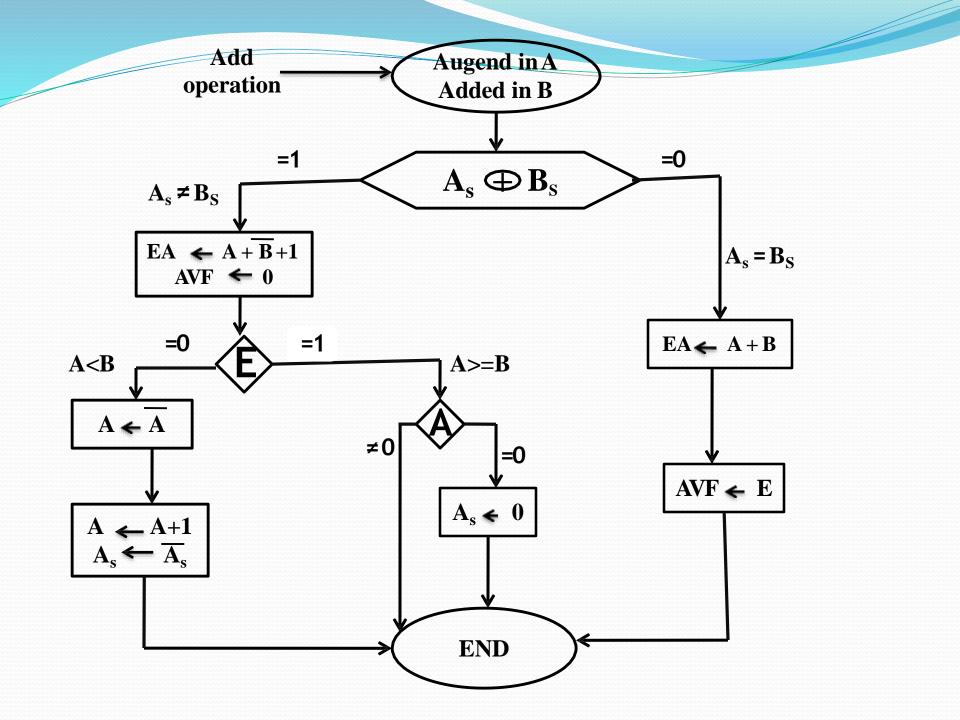
• For Example of Addition

• (+1) + (+2)(+A) + (+B)





#### • (-1) + (+2)(-A) + (+B)



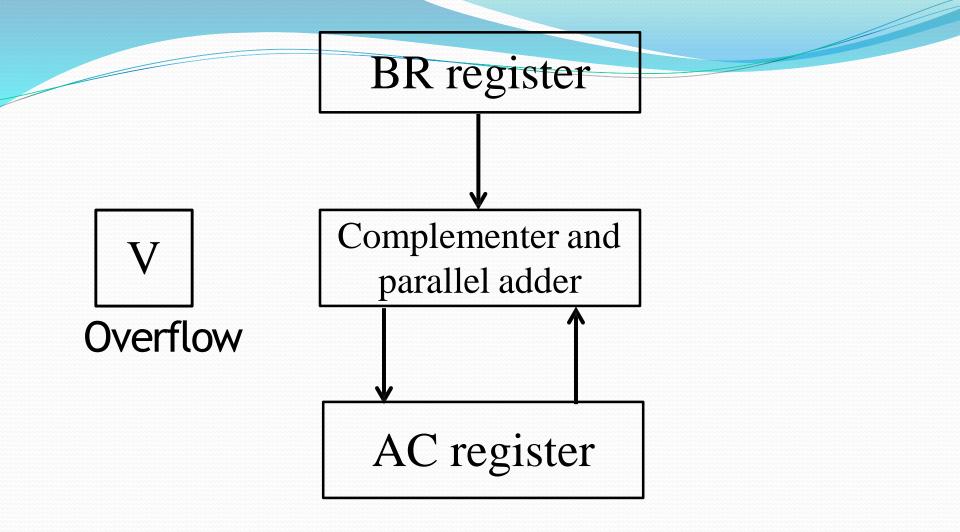
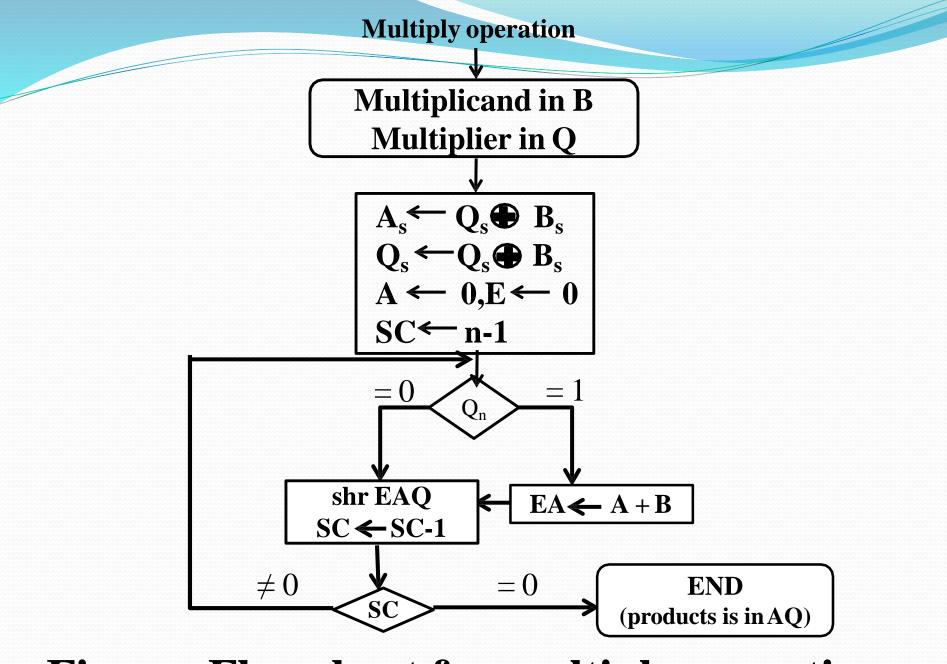


Figure: Hardware for signed-2's complement addition and subtraction.



**Figure: Flowchart for multiply operation.** 

### • THANK YOU