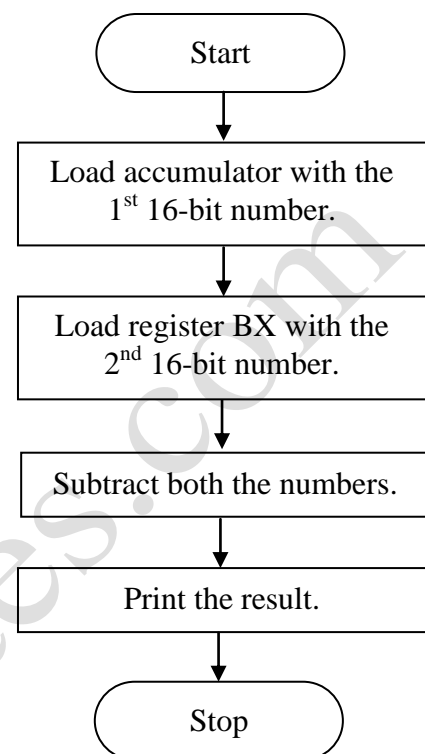


Program 12: Subtract two 16-bit numbers.**Program:**

Instructions	Comments
include "emu8086.inc"	
ORG 100h	
MOV AX, 0005H	Move 1 st 16-bit number to AX.
MOV BX, 0003H	Move 2 nd 16-bit number to BX.
SUB AX, BX	Subtract BX from AX.
CALL PRINT_NUM	Print the result.
RET	Return.
DEFINE_PRINT_NUM	Declare function.
END	

Flowchart:**Explanation:**

- This program subtracts two 16-bit numbers.
- The program has been developed using *emu8086* emulator available at: www.emu8086.com.
- ORG 100h is a compiler directive. It tells compiler how to handle the source code.
- It tells compiler that the executable file will be loaded at the offset of 100h (256 bytes).
- The 1st 16-bit number 0005H is moved to accumulator AX.
- The 2nd 16-bit number 0003H is moved to register BX.
- Then, both the numbers are subtracted and the result is stored in AX.
- The result is printed on the screen.

Output:**Before Execution:**

AX = 0005H

BX = 0003H

After Execution:

AX = 0002H