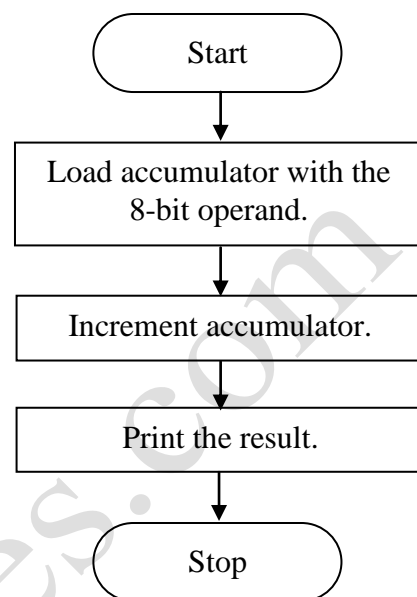


Program 1: Increment an 8-bit number.**Program:**

Instructions	Comments
include "emu8086.inc"	
ORG 100h	
MOV AL, 05H	Move 8-bit data to AL.
INC AL	Increment AL.
CALL PRINT_NUM	Print the result.
RET	Return.
DEFINE_PRINT_NUM	Declare function.
END	

Flowchart:**Explanation:**

- This program increments an 8-bit number.
- 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 8-bit operand 05H is moved to accumulator AL.
- Then, it is incremented by using INC instruction.
- The result is printed on the screen.

Output:**Before Execution:**

AL = 05H

After Execution:

AL = 06H