

**;Write a program to count the no of bits that are 1 in register A.**

**MVI B,0ABH ;Put your number here**

**MVI C,00H**

**MVI D,08H**

**LOOP: MOV A,B**

**RLC**

**CC L1**

**MOV B,A**

**L2: DCR D**

**MOV A,D**

**CPI 00H**

**JNC L3**

**L1: INR C**

**RET**

**L3: JZ L4**

**JNZ LOOP**

**;Answer is at C**

**L4: HLT**

**;Write a program to count the no of bits that are 1 in register A.**

**MVI A,0AFH ;Put your number here**

**MVI C,00H**

**RLC;1**

**CC L1**

**RLC;2**

**CC L1**

**RLC;3**

**CC L1**

**RLC;4  
CC L1**

**RLC;5  
CC L1**

**RLC;6  
CC L1**

**RLC;7  
CC L1**

**RLC;8  
CC L1**

**JMP L2**

**L1: INR C  
RET**

**;Answer is at C**

**L2: HLT**