```
.MODEL SMALL
.STACK
.DATA
CR EQU 13
LF EQU 10
MSG1 DB 'Enter a binary number:$'
MSG2 DB CR,LF,'Your input number:$'
.CODE
    mov ax,@DATA
    mov ds, ax
    xor bx, bx
    mov ah, 9
    lea dx, MSG1
    int 21h
    mov ah, 1
 N2:
    int 21h
    cmp al, CR
    je N8
    and al, 0Fh ;chuyen ki tu thanh so ('0'=30h, '1'=31h)
    shl bx, 1
    or bl, al
    jmp N2
 N8:
    mov cx, 16
    mov ah, 9
    lea dx, MSG2
    int 21h
    PrintLoop:
        rol bx,1
        jc Print1
        mov dl, '0'
        mov ah, 2
        int 21h
        jmp Exit1
    Print1:
        mov dl, '1'
        mov ah, 2
        int 21h
    Exit1:
        dec cx
        cmp cx, 0
        jne PrintLoop

    mov ah, 4Ch
    int 21h

END
```