



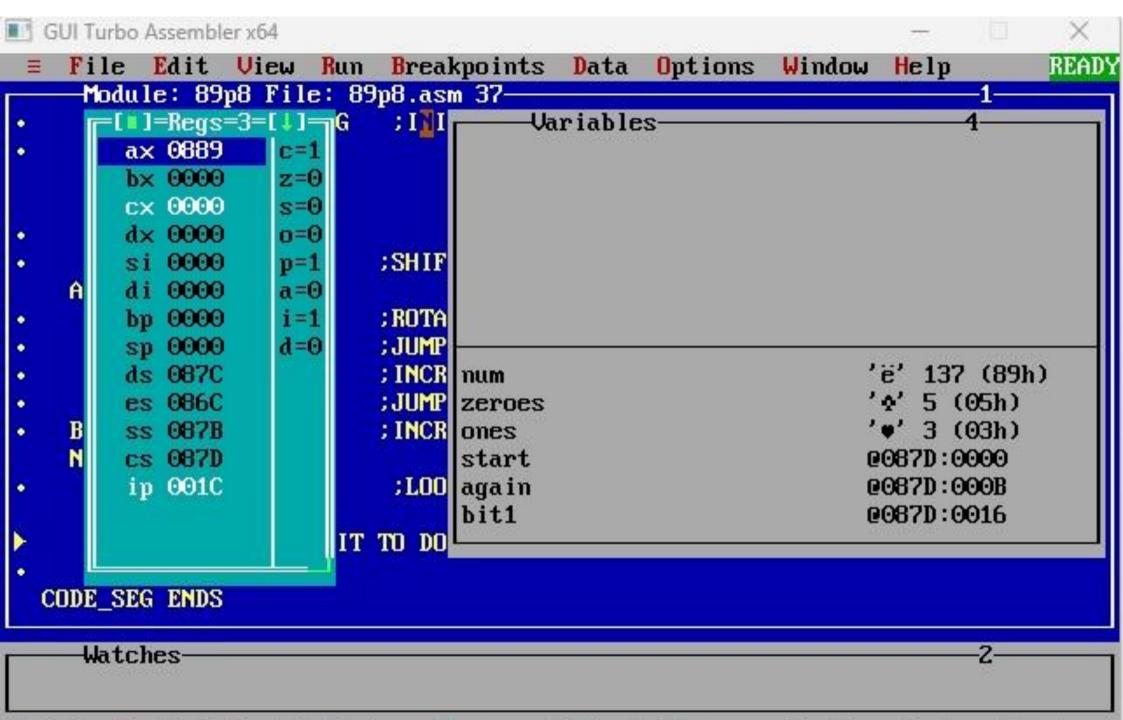
ROLL NO : 127

BATCH: S23

MPL ASSIGNMENT NO.8

AIM: TO COUNT NUMBER OF 1S AND NUMBER OF 0S IN A GIVEN 8-BIT NUMBER

```
DATA_SEG SEGMENT
NUM DB 89H
ZEROES DB 0 ONES
DB 0
DATA_SEG ENDS
CODE_SEG SEGMENT
     ASSUME CS:CODE_SEG, DS:DATA_SEG
START:
    MOV AX, DATA_SEG; INITIALIZE THE DATA SEG
    MOV DS,AX
    MOV CX,8
    MOV AL, NUM ;SHIFT THE NUMBER TO AL
AGAIN:
      ROR AL, 1
                       ;ROTATE AL
     JC BIT1 ;JUMP TO BIT 1
     INC ZEROES ;INCREASE THE ZEROES
     JMP NEXT ;JUMP TO NEXT
BIT1: INC ONES ;INCREAMENT THE ONES
NEXT:
     LOOP AGAIN ;LOOP TO AGAIN
    MOV AH ,4CH ;EXIT TO DOS
    INT 21H
CODE_SEG ENDS
END START
```



F1-Help F2-Bkpt F3-Mod F4-Here F5-Zoom F6-Next F7-Trace F8-Step F9-Run F10-Menu