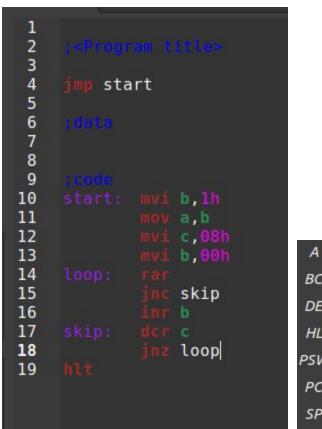
## MIT Practicals Assignment 3 Part 2 Krunal Rank (U18C0081)

Question 1: WALP to check the forth bit of a byte stored at location 3000H is 0 or 1. If 0 store 00h else store FFH at location 3002H.

```
2
 3
 4
     imp start
 5
 6
 7
 8
9
10
                   b,00h
11
12
13
14
15
16
17
18
19
                   zero
20
21
                    exit
22
23
```

Address (Hex)	Address	Data
3000	12288	16
3001	12289	0
3002	12290	255

Question 2: Write Assembly language program to count the number of 1s in 8-bit number stored in register B.



Α	02		
BC	01	00	
DE	00	00	
HL	30	02	
PSW	00	00	
PC	42	14	
SP	FF	FF	

Answer is stored in register B.

Question 3: There is an array of some elements. Write Assembly language program to count the number of elements that are lesser than 09H.



Address (Hex)	Address	Data
4201	16897	3
4202	16898	66
4203	16899	33
4204	16900	1

Α	01		
BC	09	00	
DE	01	00	
HL	42	05	

Answer is stored in register D.