Final_Worksheet

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Branch: UIC **Section /Group :A/B**
Semester: 6th **Date of Performance: 23/05/22**
Subject Name : MICROPROCESSOR AND INTERFACING LAB
Subject Code:CAP-356

1. **Aim/Overview of the practical :** `Write a program to add two 8-bit numbers and then perform the AND operation of any immediate data with the 1's compliment result of the addition and finally displaying the result`

2. Task to be done: Perform 1's compliment on the given data and store it

3. Hardware Required: 8085 Microprocessor

4. Program:

```
    LXI H,2000H;
MOV A,M;
INX H;
MOV B,M;
ADD B;
CMA;
ANI 0FH;
INX H;
MOV M,A;
HLT;
```

5. Observations:

LDA is used to load data into the accumulator.

CMA is used to do 1's compliment on the data stored in the accumulator.

STA is used to store data at any memory location .

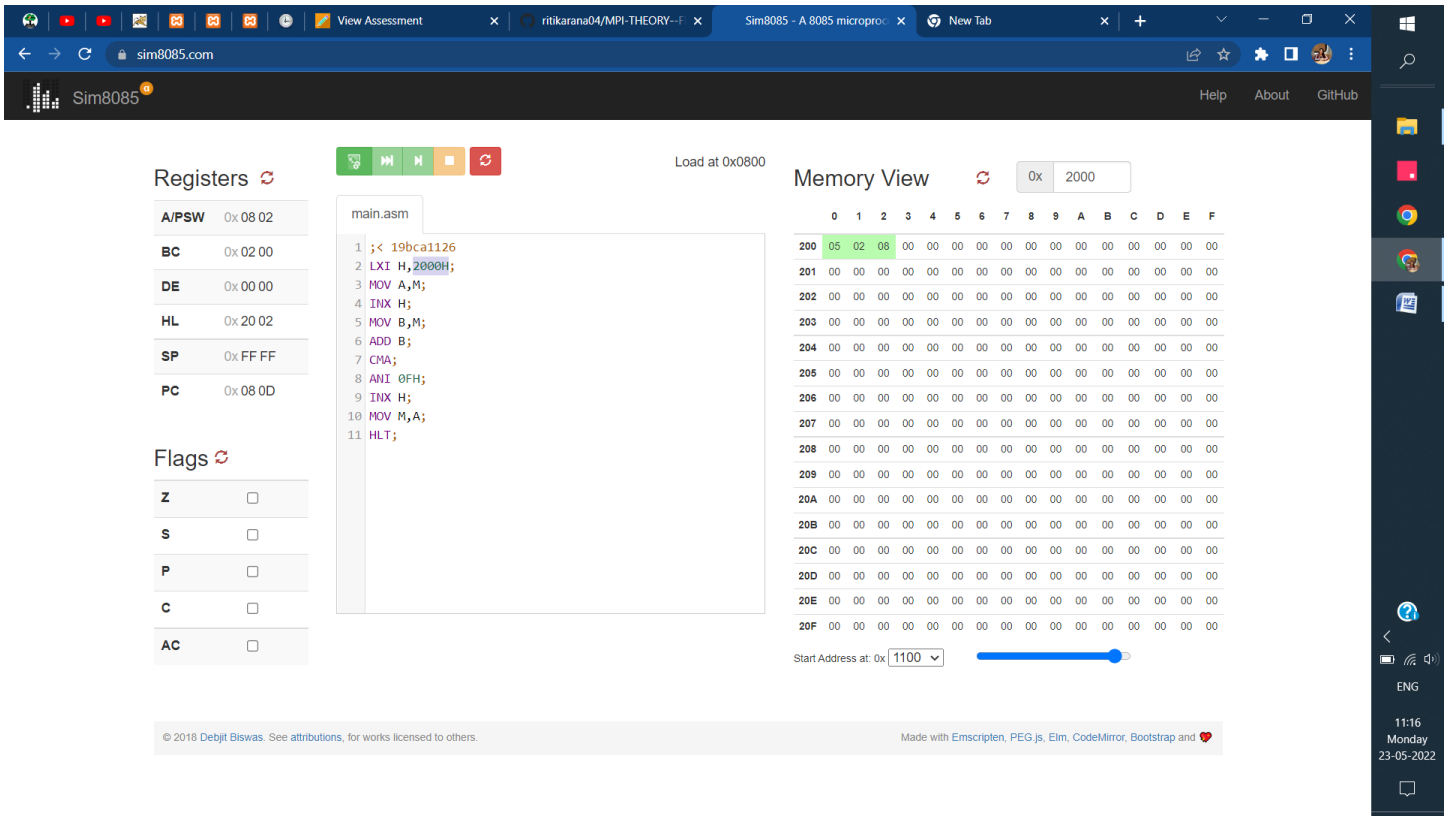
6. **Calculations:**

Input: 2000H

Binary: 0101+0010

Output: 0111

8.Output:



Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

S. No	Parameter	Marks obtained	Maximum marks
1.	Worksheet		10

2.	**Post lab Questions**		**5**
3.	**Pree lab Questions**		**5**