WORKSHEET-10

Student Name:- Ritika Rana
Branch:- BCA
Semester:- 6th
Subject Name:- Microprocessor And Interfacing Lab
Subject Code:- CAP-356

UID:- 19BCA1126
Section/Group:- A/B
Date of Performance:- 12-05-2022

1.Overview of the practical:

Write a program to arrange an array of data in ascending order and execute it on simulink.

2.Task to be done:

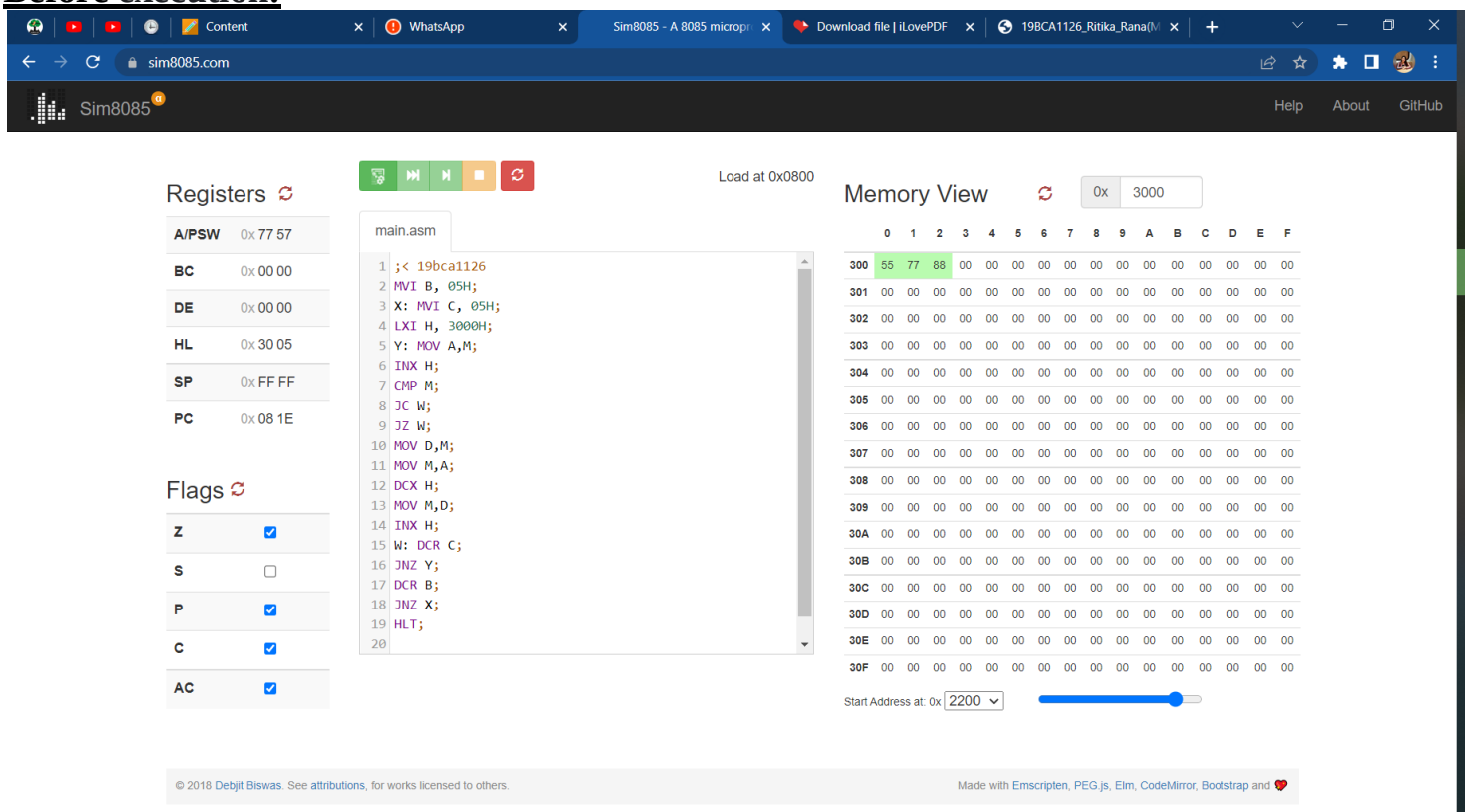
```
MVI B, 05H;
X: MVI C, 05H;
LXI H, 3000H;
Y: MOV A,M;
INX H;
CMP M;
JC W;
JZ W;
MOV D,M;
MOV M,A;
DCX H;
MOV M,D;
INX H;
W: DCR C;
JNZ Y;
DCR B;
JNZ X;
HLT;
```

3.Tools Used:

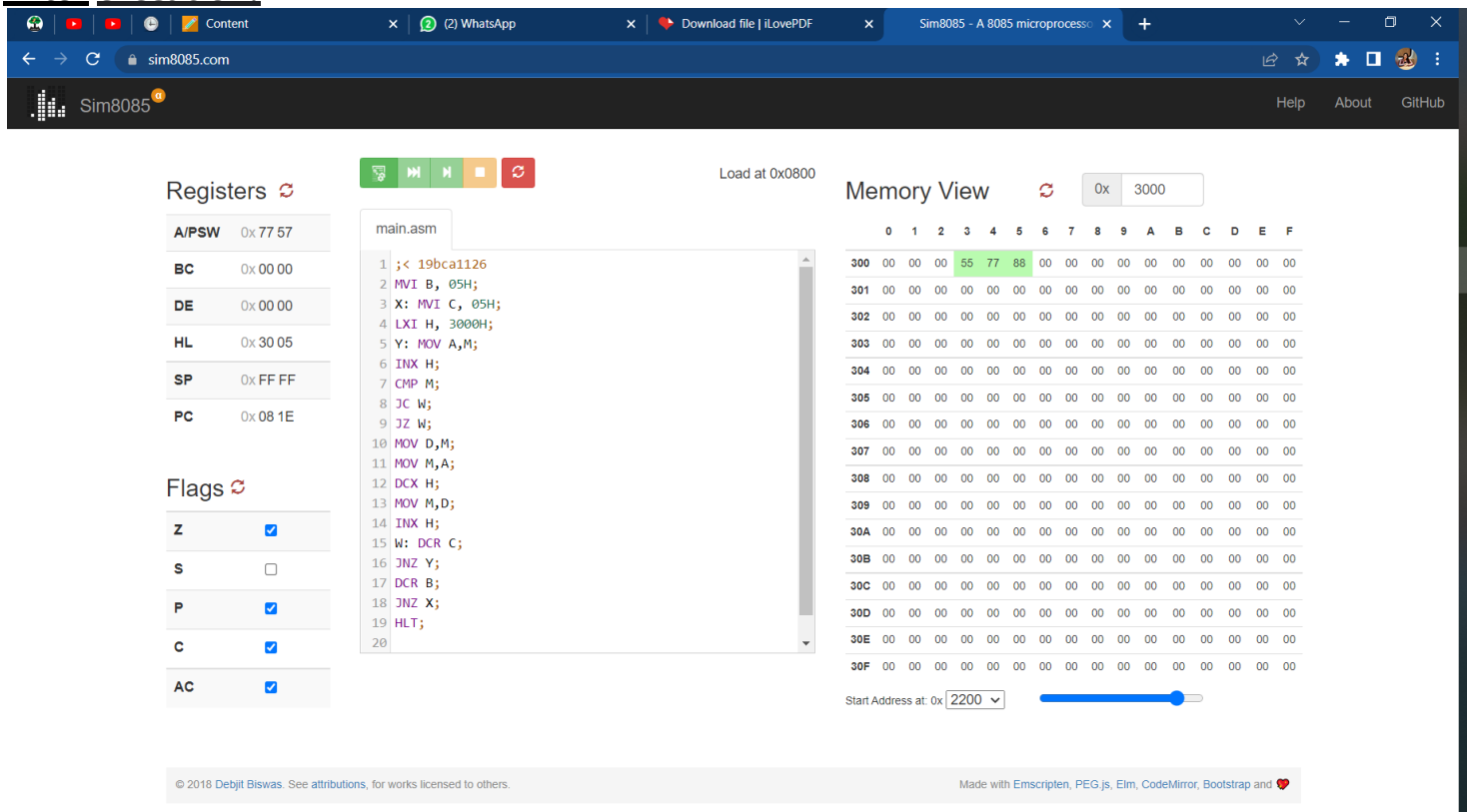
SIM 8055 (https://www.sim8085.com/)

4. Output:

Before execution:



After execution:



5.Learning outcomes (What I have learnt):

1. Sort Array ascending order.
2. Sort Array in descending order.
3. Bubble Sort.
4. HLT (Used to end the program).

6. Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1	Demonstration/Performance/Pre Lab Quiz		5
2	Worksheet		10
3	Post Lab Quiz		5