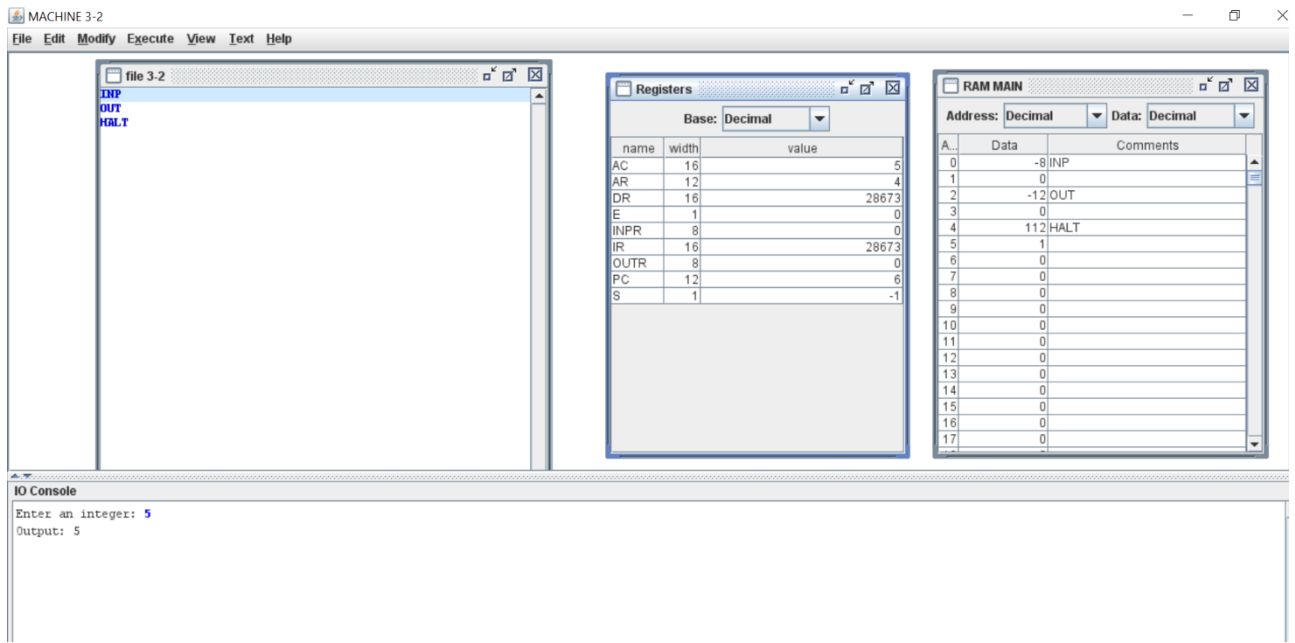


NAME – KHUSHI PANWAR, khushipanwar26@gmail.com

ROLL NO – 2021334

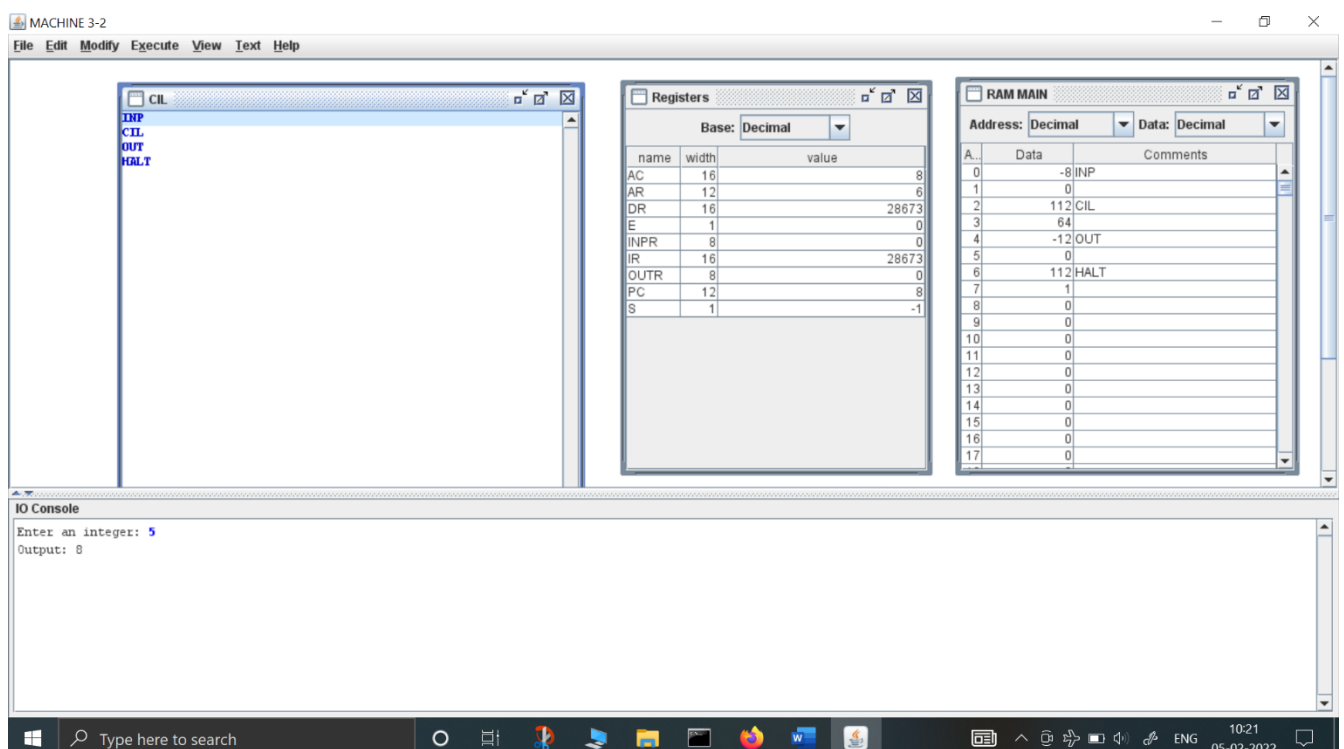
CSA PRACTICAL: ASSIGNMENT 1

1. A basic machine that takes input from the user and displays output:



2. Write an assembly language program to simulate the machine for following register reference instructions :

i. CIL



ii. CIR

MACHINE 3-2

File Edit Modify Execute View Text Help

CIR

```

INP
CIR
OUT
HALT

```

Registers

Base: Decimal

name	width	value
AC	16	2
AR	12	6
DR	16	28673
E	1	0
INPR	8	0
IR	16	28673
OUTR	8	0
PC	12	8
S	1	-1

RAM MAIN

Address: Decimal Data: Decimal

A...	Data	Comments
0	-8	INP
1	0	
2	112	CIR
3	-128	
4	-12	OUT
5	0	
6	112	HALT
7	1	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	

IO Console

Enter an integer: 5

Output: 2

Windows taskbar: Type here to search, 10:21 05-02-2022

iii. CLA

MACHINE 3-2

File Edit Modify Execute View Text Help

CLA

```

INP
CLA
OUT
HALT

```

Registers

Base: Decimal

name	width	value
AC	16	0
AR	12	6
DR	16	28673
E	1	0
INPR	8	0
IR	16	28673
OUTR	8	0
PC	12	8
S	1	-1

RAM MAIN

Address: Decimal Data: Decimal

A...	Data	Comments
0	-8	INP
1	0	
2	120	CLA
3	0	
4	-12	OUT
5	0	
6	112	HALT
7	1	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	

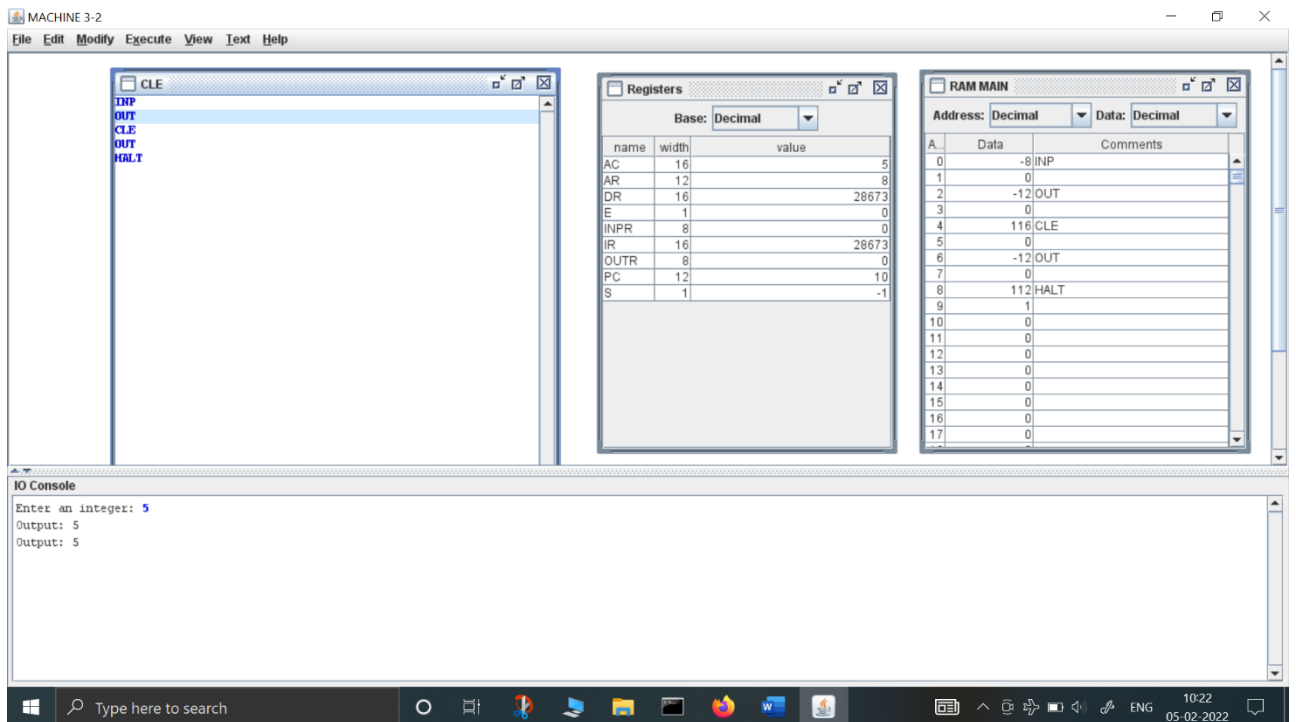
IO Console

Enter an integer: 5

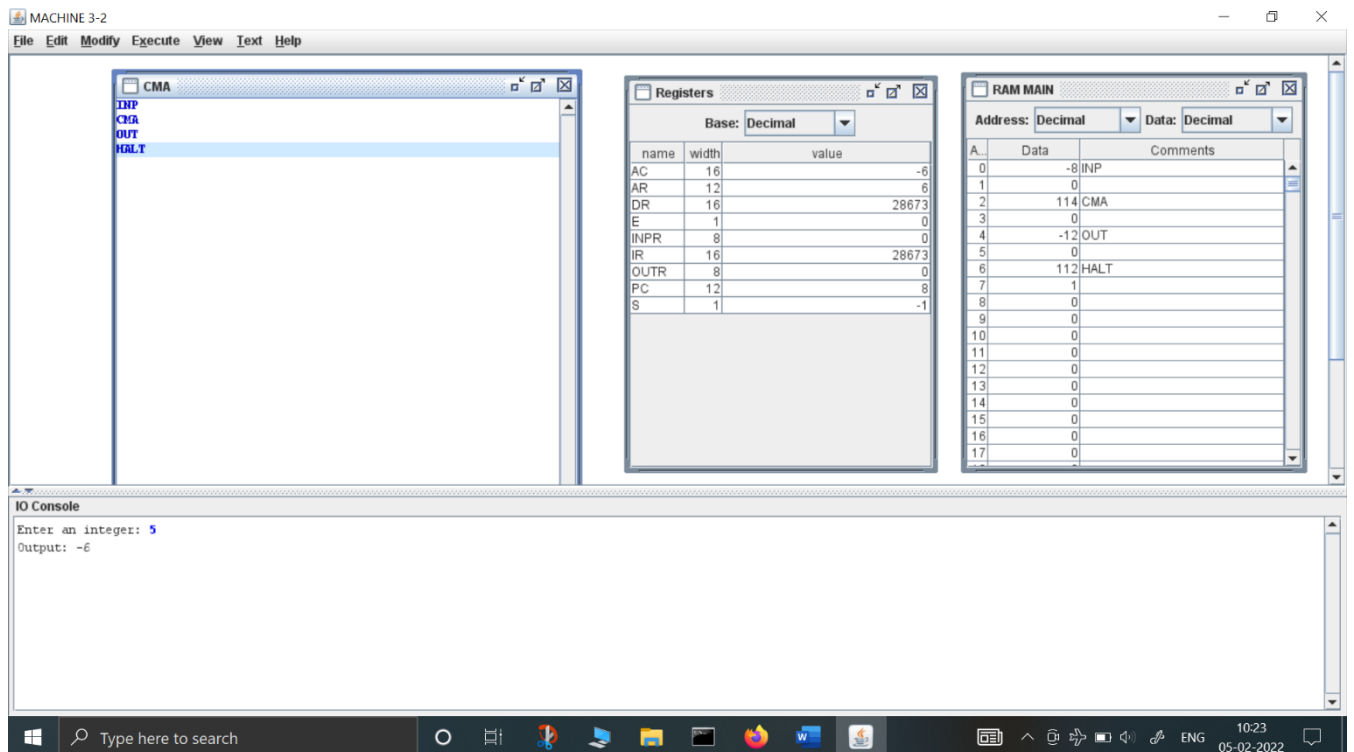
Output: 0

Windows taskbar: Type here to search, 10:22 05-02-2022

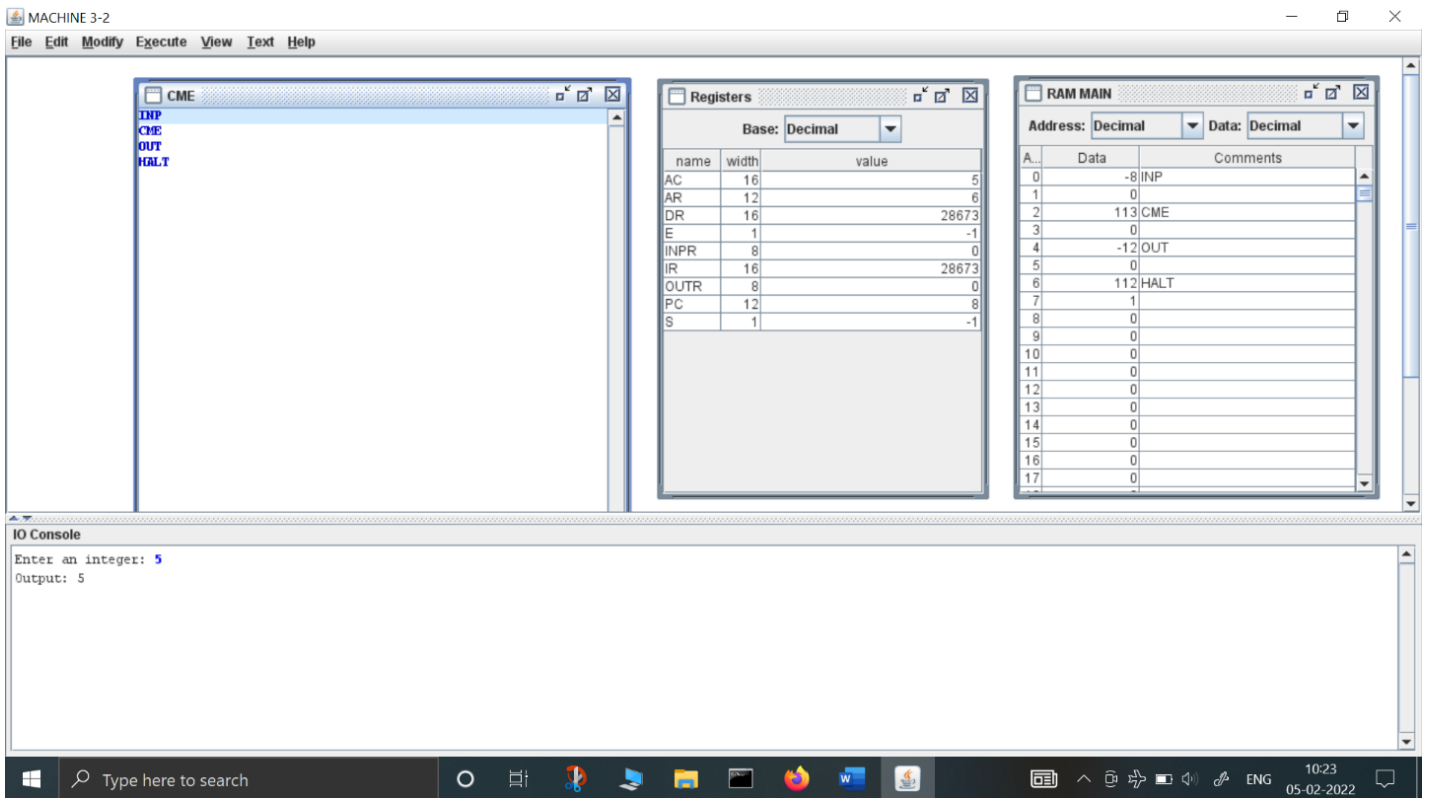
iv. CLE



v. CMA



vi. CME



vii. INC

