Task No. 1: Take any integer as input, if the number is greater than 5 print it

If a>5, print a

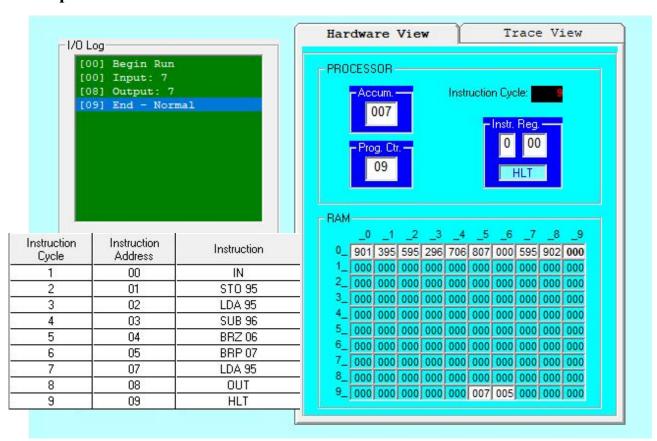
Else if a=0,then Halt

Else if a < 5, then halt

#### **Solution:**

in sto 95 lda 95 sub 96 brz 06 brp 07 hlt lda 95 out hlt \*96 dat 005

## **Output:**

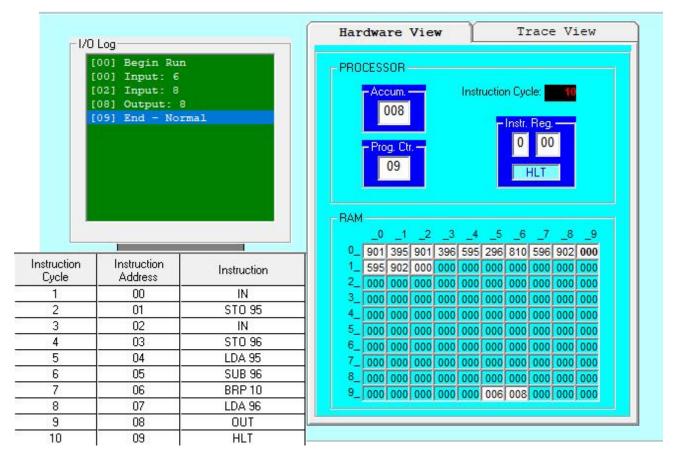


Task No. 2: Take two input from user and print the largest number.

#### **Solution:**

in sto 95 in sto 96 lda 95 sub 96 brp 10 lda 96 out 96 hlt lda 95 out 95 hlt

#### **Output:**



Task No. 3: Write pseudocode for the following code:

#### **Solution:**

in sto 90 in

```
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sto 91
sub 90
brz 07
brp 10
lda 90
add 91
out
hlt
lda 91
sub 90
out
hlt
Output:
Input A
Input B
Subtract B-A
If (branch ==0)
       Load A
       Add A+B
       Output the Result & terminate }
Else if (branch==positive number)
{
       Load B
       Subract B-A
                                           }
       Output the Result & terminate
```

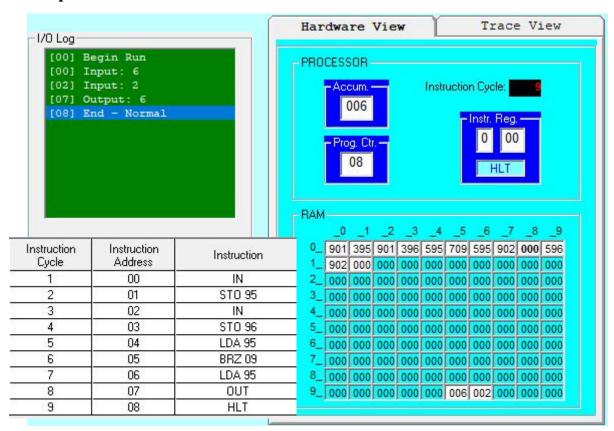
# Task No. 4: Take two inputs and print the first non-zero number.

## **Solution:**

```
in sto 95 in sto 96 lda 95 brz 09 lda 95 out hlt lda 96 out
```

hlt

## **Output:**



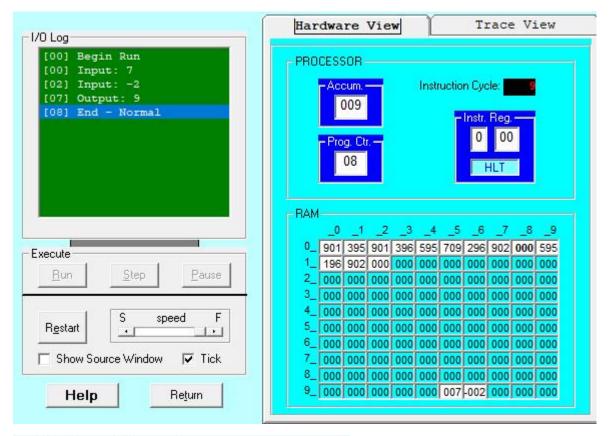
Task No. 5: Take two inputs and subtract them if a≠0 else add them.

#### **Solution:**

```
in sto 95 in sto 96 lda 95 brz 09 sub 96 out hlt lda 95 add 96 out hlt
```

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## **Output:**



Instruction	Instruction	
Cycle	Address	Instruction
1	00	IN
2	01	STO 95
3	02	IN
4	03	STO 96
5	04	LDA 95
6	05	BRZ 09
7	06	SUB 96
8	07	OUT
9	08	HLT