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**Lab 8**

**Task 1:**

START:

INP

STA NUM

INP


CMA

INC


ADD NUM

OUT

HALT


NUM: .data 1 0

**Output**

```
EXECUTING...
Enter Inputs, the first of which must be an Integer: 10
Enter Inputs, the first of which must be an Integer: 5
Enter Inputs, the first of which must be an Integer: 2
Output:   3
EXECUTION HALTED NORMALLY due to the setting of the bit(s): [HALT-BIT]
```

**Task 2:**

START:

ADD NUM1

CMA

INC


ADD NUM2

OUT

HALT


NUM1: .data 1 3

NUM2: .data 1 8


## Output:

```
EXECUTING...
Output:   5
EXECUTION HALTED NORMALLY due to the setting of the bit(s): [HALT-BIT]
```


## Task 3:

START:

INP

STA NUM

INP


CMA

INC


ADD NUM

STA RESULT

OUT

HALT

NUM: .data 1 0

RESULT:.data 1 0


## Output:

```
EXECUTING...
Enter Inputs, the first of which must be an Integer: 20
Enter Inputs, the first of which must be an Integer: 10
Output:   10
EXECUTION HALTED NORMALLY due to the setting of the bit(s): [HALT-BIT]
```