

# CS-105 Assignment 1

## Part I

1.  $4+5$

Ans: 9

2.  $4+5.0$

Ans: 9

3.  $-4*i$

Ans:  $0.0000 - 4.0000i$

I think that 'i' might be a known calculation in MATLAB and so there is nothing that needs to be defined above.

4.  $6+k$

Undefined function or variable 'k'

Because the variable 'k' was never previously defined, there could be no output or answer. Unless I attached a number to the character 'k,' I cannot get an answer for this expression.

5.  $2^3+8$

Ans: 16

6.  $6+'hello'$

Ans: 110 107 114 114 117

I think that when you add an integer to a character string, it gives you the numeric representations of that string of characters. I tried other similar expressions and each gave me a numeric string with the same amount of groupings as there were letters.

7.  $(3+4)(4-8)$

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Error: Unbalanced or unexpected parenthesis or bracket.

I think that the reason this did not work was because it was not specific enough. In order to do this calculation, you need to be very specific when multiplying, so you need to input  $(3+4)*(4-8)$  to receive an answer.

8.  $4/0$

Ans: Inf

I was not sure what "Inf" meant so I looked it up. Inf means infinity, and in MATLAB, infinity is produced by computing an integer divided by zero.

## Part II

9.  $\frac{4}{3}$

MATLAB: 4/3

Ans: 1.3333

10.  $5\frac{7}{12} + 7$

MATLAB: 5+7/12+7

Ans: 12.5833

11.  $3^4 - 5$

MATLAB: 3^4-5

Ans: 76

I learned a little more about how to navigate the MATLAB program.