## **EECE.2160: ECE Application Programming** Fall 2018

Lecture 4: Key Questions September 12, 2018

## **QUESTIONS:**

- 1. What are the basic binary arithmetic operators supported by C?
- 2. Explain the modulus operator (%).
- 3. What determines the type of a binary operation's result?
- 4. What is the difference between division of integers and floating-point types?
- 5. Explain the operation of the unary negation operator (e.g., -x).
- 6. Describe the use of printf() to print numeric values and characters.

## **EXAMPLES:**

1. What values do w, x, y, and z have at the end of this program?

```
int main() {
    int w = 5;
    float x;
    double y;
    char z = 'a';
    x = 8.579;
    y = -0.2;
    w = x;
    y = y + 3;
    z = w - 5;
    return 0;
}
```

- 2. Evaluate each of the following expressions, including the type (int or double) in your answer.
- a. 19/3
- b. 3/19
- c. 19%3
- d. 3%19
- e. 5 + 7/2
- f. 5.0 + 7/2
- g. 5 + 7.0/2
- h. 5 \* 3 % 3 / 6 + 14 + 10 / 2
- i. 5 \* (3 % 3) / 6 + 14.0 + 10/3