

# EECE.2160: ECE Application Programming

## Spring 2018

### Lecture 5: Key Questions

January 31, 2018

1. **Example:** 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.  $5 * (3 \% 3) / 6 + 14.0 + 10/3$

2. Describe the use of `printf()` to print numeric values and characters.

3. **Example:** Show the output of each of the following short programs:

a.

```
#include <stdio.h>
void main()
{
    int i=2, j=3, k, m;
    k = j * i;
    m = i + j;
    printf("%d %d %d %d\n", i, j, k, m);
}
```

b.

```
#include <stdio.h>
void main() {
    double f, g;
    f = 1.0 / 4.0;
    g = f * 20;
    printf("f = %lf,\ng = %.2lf\n", f, g);
}
```

c.

```
#include <stdio.h>
void main() {
    int a = 5, b = 2;
    printf("Output%doesn't%make%sense", a, b, a + b);
}
```

4. Describe the use of `scanf()` for reading input values into variables.