

# EECE.2160: ECE Application Programming

Fall 2018

## Lecture 32: Key Questions

November 30, 2018

### QUESTIONS:

1. Explain the use of the `fopen()` function.
2. Explain the use of the `fclose()` function.
3. Explain how `fscanf()` and `fprintf()` are used for formatted file I/O.
4. Explain how `fread()` and `fwrite()` are used for unformatted I/O.

**EXAMPLES:**

Complete the below program to:

- Read three integers from file `myinput.txt`
- Determine the sum and average of those values
- Write the original values, sum, and average to file `myoutput.txt`.

```
int main() {
    int v1, v2, v3, sum;    // Input values and their sum
    double avg;           // Average of input values
    FILE *fpIn, *fpOut;   // File pointers

    // Open input file and exit if error

    // Open output file and exit if error

    // Read input data, find sum & average, and print results

    // Close files

}
```