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

Lecture 29: Key Questions April 13, 2018

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

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- 4. **Example:** Write a 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.

5. Explain how fread() and fwrite() are used for unformatted I/O.

6. Describe the standard input and output streams.

7. Describe how to test that an operation has reached the end of a file or caused an error.

8. Describe the functions used for character I/O.

9. Describe the functions used for line I/O

10. **Example:** Show the output of each of the following short program.

```
a. Input: Test Input 1 23 4 5
```

```
void main() {
   char c;
   char buffer[50];
   int i, n;
   i = 0;
   while ((c = fgetc(stdin)) != '\n') {
      if (c != ' ') {
        buffer[i++] = c;
      }
   }
   buffer[i] = '\0';
   fputs(buffer, stdout);
}
```

```
b. Input:
Test1
Test 2
abcdefghijklmnopqrstuvwxyz
This is a test of the fgets() function

void main() {
   char str[25];
   int i;
   for (i = 0; i < 5; i++) {
      fgets(str, 24, stdin);
      strcat(str, "\n");
      fputs(str, stdout);
   }
}</pre>
```

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