EECE.2160: ECE Application Programming

Summer 2018

Lecture 12: Key Questions June 21, 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.
- 5. Describe the standard input and output streams.
- 6. Describe how to test that an operation has reached the end of a file or caused an error.
- 7. Describe the functions used for character I/O.
- 8. Describe the functions used for line I/O.

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EXAMPLES:

- 1. 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.

2. 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>
```

c. Input: