EECE.2160: ECE Application ProgrammingSummer 2016

Lecture 14: Key Questions June 22, 2016

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.
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M. Geiger Lecture 14: Key Questions

- 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. Explain how to check that the end of a file has been reached, or if an error has occurred.

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

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

9. Describe the standard I/O streams and explain how the file I/O functions can be used to write to these locations.

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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