**CST 231 PLTL Week 10**

**Exercise 1:**

How many times will the code fragment on the right print "Hello", given the file on the left? Work individually for a few minutes, then pair up to compare thoughts.

|  |  |
| --- | --- |
| input1.txt  42 402 44442222  22  43 4 2 | ifstream in\_file;  in\_file.open(“input1.txt”);  int number;  while (true) {  in\_file >> number;  cout << "Hello ";  in\_file >> number;  if (in\_file.eof() == 1)  break;  }  in\_file.close(); |

|  |  |
| --- | --- |
| input2.txt  This is a  file!  43 4 2  The...end...? | ifstream in\_file;  in\_file.open(“input2.txt”);  string str;  while (!in\_file.eof()) {  cout << "Hello ";  in\_file >> str;  in\_file >> str;  }  in\_file.close(); |

**Exercise 2:**

**A.** Let’s practice opening files and count what’s in the file. Open a text file, you can use any text file you want or download the Shakespeare.txt from ilearn.

Select 2 of the following:

* Number of lines in the file
* Number of words in the file
* Number of characters in the file
* Count how many e’s are in the file

**B.** Now Create a new file with the same text, but add to the bottom of the file what you counted and its value.

**Exercise 3:**

There is a file, “gradebook.txt”, containing some number of students’ names followed by

graded assignments. You can assume each student has exactly two parts to their name and ten grades. Write a program that reads the contents of “gradebook.txt” and writes the students’ names followed by their average percentage in the file “semesterGrades.txt”. The last line in the file should contain the class average.