CPSC 353- Introduction to Computer Security
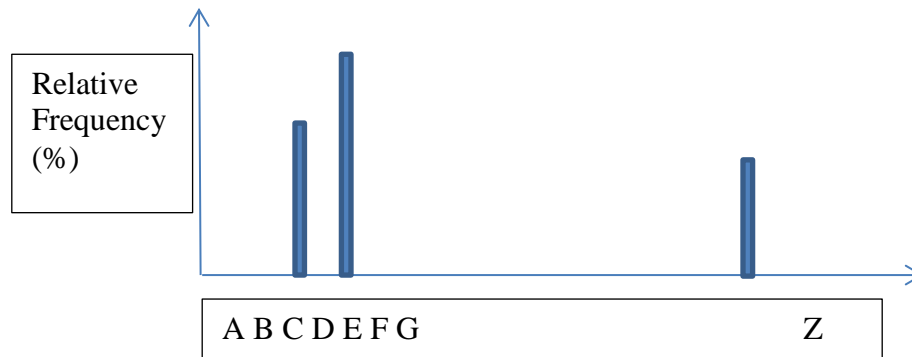## Spring 2015

Project 1

Due: March 2, 11:55 PM.
Submit the source code and the requested output to the Titanium.

In this project, you are to write a program in any language of your choosing to count the frequency of word usage in the Play, The Tragedy of Macbeth. Ignore all "space" and punctuation marks. You are to provide the output for the following:

1. Create a diagram to plot the relative frequency (y axis) in percentages of each English alphabet character (x axis). In this exercise, please treat the upper case and the lower case of the same character as the same alphabet character. For simplicity, you are to count all the words including the title of the attached play. If you provide only a table of letter frequency, it will reduce your grade by 10%.

2. How many times the word "the" appears in the play?

3. How many times the word "when" appears in the play?

4. What is the longest word in this play? If there is more than one, list all of them.