

**Sultan Qaboos University**  
**College of Science**  
**Department of Computer Science**  
**COMP2002, SPRING 2013**  
**Assignment No. 3**  
**Due Date: Sunday 8/12/ 2013 (11:55pm)**

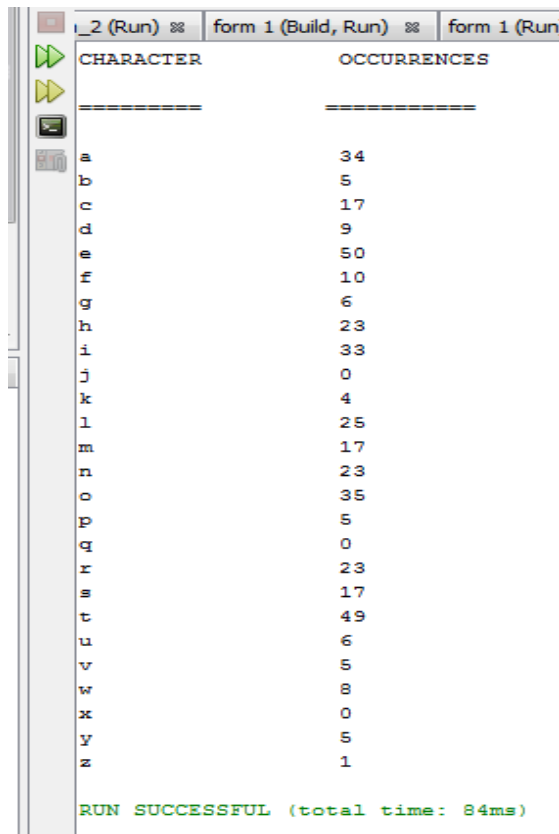
- Write your name, ID number and section on your submitted solution file.
- Name your solution files as **hw3\_Sec\*\*\_\*\*\*\*\*.cpp**, where **\*\*** and **\*\*\*\*\*** are your SECTION and student ID number respectively.

Write a program which prints a table listing the number of occurrences of the lower-case characters 'a' to 'z' in the file "text.cpp". (Save your program in a file of this name so that you can test it on itself.)

Write a C++ program which does the following:

1. Reads the text from text file (see *text.txt*).
2. Ignore any non-alphabet (ex: digit, special character )
3. Convert any upper character format to lower character format.
4. Count the occurrence of each letter.
5. The program should produce output such as the following:

### Output

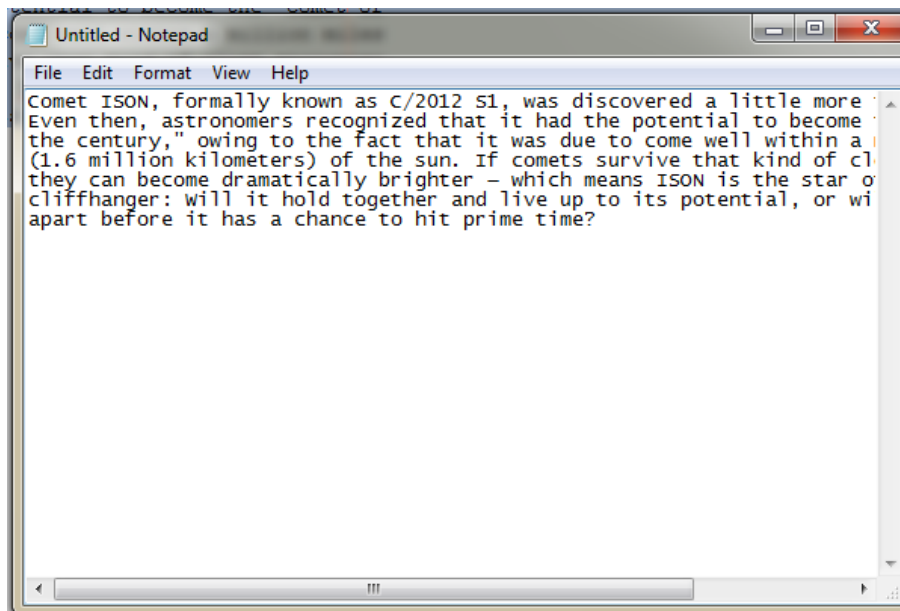


The screenshot shows a terminal window with the following output:

CHARACTER	OCCURRENCES
a	34
b	5
c	17
d	9
e	50
f	10
g	6
h	23
i	33
j	0
k	4
l	25
m	17
n	23
o	35
p	5
q	0
r	23
s	17
t	49
u	6
v	5
w	8
x	0
y	5
z	1

RUN SUCCESSFUL (total time: 84ms)

### Input file (text.txt)



### Grading Table:

Attributes	0	0.5	1	2
Style (comments, variable naming, indentation)				
Declarations				
Opening and closing file				
Usage of loops				
Use of selection statements				
Covert upper case to lower case				
Skipping non alphabets.				
Reading from file				
Compute the occurrence of each char				
Compilation errors				
Execution errors				
Correct output format				
Total				