

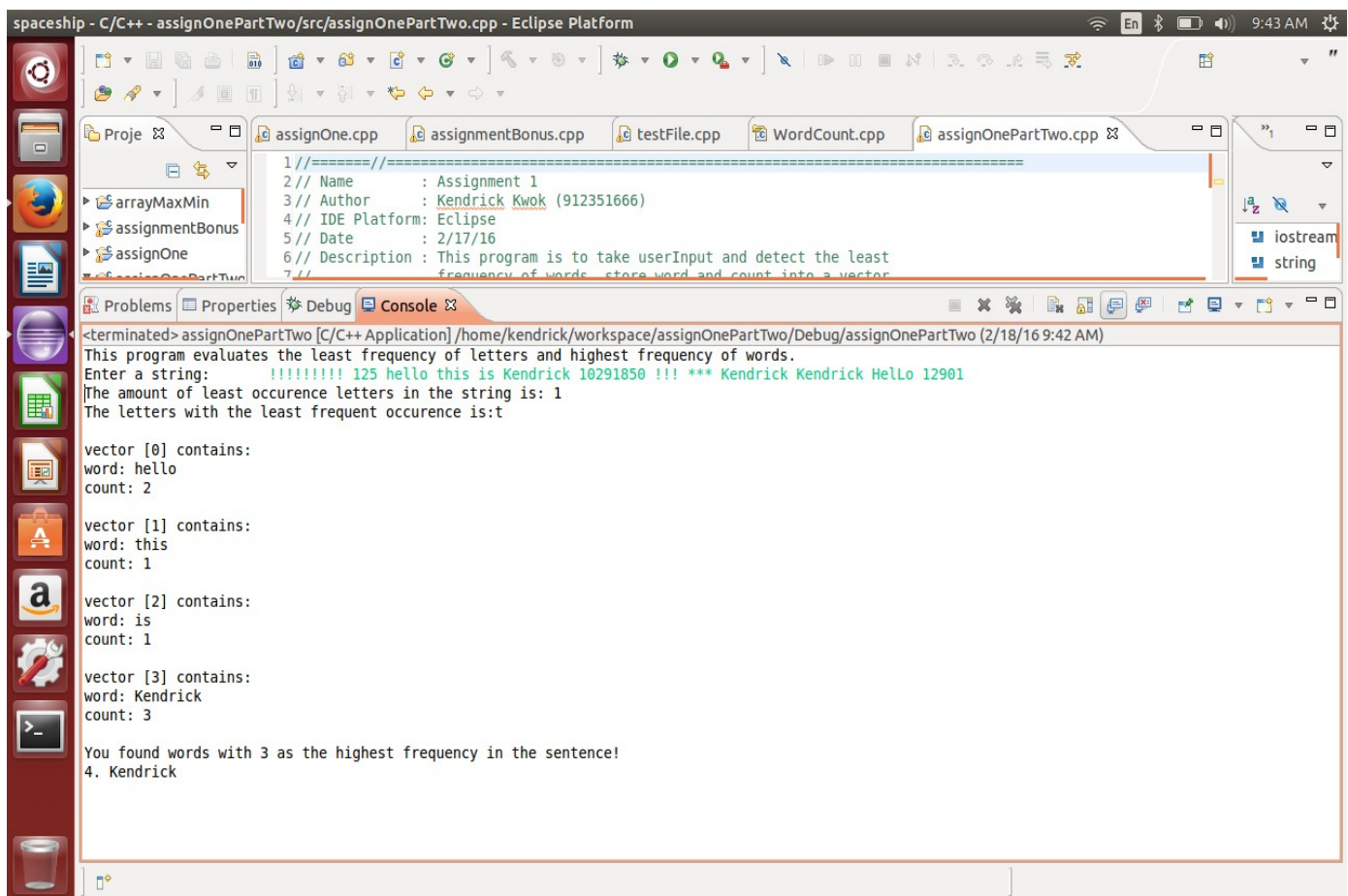
Kendrick Kwok
912351666
Assignment #1
Potter

I used Eclipse 3.8.1 – 5.1 on a Linux computer.

#1: The first program is to take user input and detect the least frequency of words, store word and count into a vector, display the vector, and output the highest frequency of words from the vector. If the user inputs an INT, the user is given no letters and cout from the vector indicatin that the vector is empty. .

#1: The second program is to take the user input of ints and store it into a vector. Print out the contents, then using selection sort to sort the vector from the last amount to largest, and print out the vector again. If the user inputs something that is not the string, then the user is prompted to write another int.

Below is the compilation I have, with the user inputs if typed incorrectly.



```
spaceship - C/C++ - assignOnePartTwo/src/assignOnePartTwo.cpp - Eclipse Platform

1 //=====
2 // Name      : Assignment 1
3 // Author    : Kendrick Kwok (912351666)
4 // IDE Platform: Eclipse
5 // Date      : 2/17/16
6 // Description : This program is to take userInput and detect the least
7 //              frequency of words, store word and count into a vector

<terminated> assignOnePartTwo [C/C++ Application] /home/kendrick/workspace/assignOnePartTwo/Debug/assignOnePartTwo (2/18/16 9:42 AM)
This program evaluates the least frequency of letters and highest frequency of words.
Enter a string: !!!!!!!!! 125 hello this is Kendrick 10291850 !!! *** Kendrick Kendrick HeLo 12901
The amount of least occurrence letters in the string is: 1
The letters with the least frequent occurrence is:t

vector [0] contains:
word: hello
count: 2

vector [1] contains:
word: this
count: 1

vector [2] contains:
word: is
count: 1

vector [3] contains:
word: Kendrick
count: 3

You found words with 3 as the highest frequency in the sentence!
4. Kendrick
```

Problem #2:

The screenshot shows the Eclipse IDE with the following components:

- Project Explorer:** Shows a project named 'assignmentBonus' with sub-projects 'arrayMaxMin', 'assignmentBonus', 'assignOne', 'assignOnePartTwo', 'inputOutput', and 'testFile'.
- Editor:** Displays the code for 'assignmentOnePartTwo.cpp'. The code includes a `main()` function that uses a `vector<int>` to store input numbers and performs a selection sort.
- Console:** Shows the output of the program. It prompts the user for the number of elements (6), then for each element. It displays the current vector contents and the result after a selection sort.

```
72     }
73 }
74
75 int main() {
76     //Variable declarations
77     int counter;
78     int correctCounter;
79     int getX;
80
81     //Declare a vector of ints
```

Console Output:

```
<terminated> assignmentBonus [C/C++ Application] /home/kendrick/workspace/assignmentBonus/Debug/assignmentBonus (2/17/16 9:43 PM)
How many numbers do you want to input into the vector?: 6
Not an integer! Type in an integer: 6
Enter a vector of numbers: alksmgkka @!!!
Not an integer! Type in an integer: 4
You pushed 4 into vector [0]!
Enter a vector of numbers: 2
You pushed 2 into vector [1]!
Enter a vector of numbers: laglksma !!
Not an integer! Type in an integer: 7
You pushed 7 into vector [2]!
Enter a vector of numbers: 4
You pushed 4 into vector [3]!
Enter a vector of numbers: 2
You pushed 2 into vector [4]!
Enter a vector of numbers: 647
You pushed 647 into vector [5]!
Your current vector contents are: 4 2 7 4 2 647
Your vector contents after selection sort are: 2 2 4 4 7 647
```