**Week 14 Submission**

Amy Law – 18001399

import javax.swing.JOptionPane;

String numberInClass = JOptionPane.showInputDialog("How many students are in the class");

int classSize = Integer.parseInt(numberInClass);

String[] students = new String[classSize];

for (int i = 0; i < classSize; i++)

{

students[i] = JOptionPane.showInputDialog("Enter a students forename: ");

}

students = sort(students);

for (String i:students)

{

System.out.println(i);

}

println("Students have been sorted into alphabetical order.");

String vowels = "aeiouAEIOU";

int numberOfVowels = 0;

for (String studentName : students)

{

for (int j = 0; j < studentName.length(); j++)

{

char letter = studentName.charAt(j);

for (int v = 0; v < vowels.length(); v++)

{

if (letter == vowels.charAt(v))

{

numberOfVowels += 1;

}

}

}

println(studentName + " has " + studentName.length() + " characters and " + numberOfVowels + " vowels.");

numberOfVowels = 0;

}