CSCI 161: Homework 4

Due: Thursday, March 1st, 2018 @ 8:00PM

1). Give the values of each of the variables after the execution of the entire program:

```java
String s1 = "CSCI 161: Introduction to Programming 1";
String s2 = s1.substring (10, 20);
String s3 = s2.toUpperCase();
int indexOfO1 = s2.indexOf("o");
int indexOfO2 = s3.indexOf("o");
int indexOfT = s2.indexOf("t");
String small = s3.substring(indexOfO1, indexOfT);
String large = s1.toUpperCase().substring(20);
```

e.g. s1, s2, s3, small, large, indexOfO1, indexOfO2, indexOfT

2). Write an if-else statement that prints “Pass” if grade is >= 60 and prints “Fail” otherwise.

3). Write a program which (1) reads a double number from a user, and (2) stores the Math.sqrt of number if it is > 0 and -1 otherwise into a variable named answer

4). Write nested if-else statements to determine graduation honors from a gpa. The program should print “Magna Cum Laude” if gpa is at least 3.95, “Summa Cum Laude” if gpa is at least 3.7, and “Cum Laude” if gpa is at least 3.5. Otherwise, there should be no output.

5). Write a program which reads and print the average (as a double) of two int numbers from a user.