

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:

```
String s1 = "CSCI 161: Introduction to Programming 1";
String s2 = s1.substring(10, 20);
String s3 = s2.toUpperCase();
int indexOf01 = s2.indexOf("o");
int indexOf02 = s3.indexOf("o");
int indexOfT = s2.indexOf("t");
String small = s3.substring(indexOf01, indexOfT);
String large = s1.toUpperCase().substring(20);
```

e.g. s1, s2, s3, small, large, indexOf01, indexOf02, 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 prints the average (as a double) of two `int` numbers from a user.