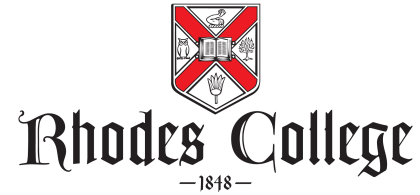# COMP 231-01
Introduction to Computer Organization
Homework 4

Due Date: Thursday, October 31

1. Convert the following C program fragment to NIOS assembly language:

```
if (x < y) {
    y = x+1;
else if (x == 3)
    y = x+2;
else
    y = 0;
```

Assume that x is located in register r10 and y is in r11.

2. Convert the following C program fragment to NIOS assembly language:

```
int c, n, fact, sumoffact;
n = 10;
fact = 1;
sumoffact = 0;

for (n=1; n<= 10; n++) {
  for (c=1; c<=n; c++) {
    fact = fact * c;
  }
  sumoffact += fact;
}
```

Assume that c is located in register r10, n is in r11, and that `fact` and `sumoffact` are in memory locations 1000 and 2000, respectively.