# Your Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Lab 7a: to be done in class with a partner – due at the end of the lab

Create a class called Person that has instance variables, setters, and getters for the following data members:

* First name
* Last name
* Birth year
* Sex
* Weight in pounds
* Highest education level (can be “high school”, “undergraduate”, or “graduate”)

Create several overloaded constructors, as follows:

1. One constructor takes all six values (above) as parameters
2. Another constructor takes five values as parameters, but sets the birth year automatically to 2016
3. A third constructor takes three values as parameters, but sets the birth year automatically to 2016, the sex to female, and the highest education level to “high school”.

**NOTE: use “this” in every constructor and method.**

**NOTE: do not store the first name “Jason” or last name “Harrison”. If any constructor or mutator gets those values as parameters, ignore it and set the name to null instead. Use the String methods .equals() or .equalsIgnoreCase() to compare Strings; do not use == to compare Strings (nor any objects).**

In the first two constructors, use a switch statement to ensure that the highest education level is only one of the three specified, and that the sex is either “male” or “female”.

Create overloaded methods for:

printDetails()   
printDetails(boolean kilograms)  
printDetails(boolean uppercase)

All three methods print sentences in the exact format of:

“Tiger Woods was born in 1975. He weighs 200 pounds and he has an undergraduate degree”

Note: use “She” instead of “he” for females.

Note: convert to kilograms for the second overloaded method if true is passed in.

Note: print the names out in UPPERCASE in the third overloaded method if true is passed in; otherwise use all lowercase.

Submission

This in-class lab is due at the end of this class. Do not upload your lab to BCIT’s servers. When you are finished, show your instructor so he can sign your paper.

Checked by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**NOTE:** keep this paper for your instructor to verify your grades later in the course.

NOTE: EVERY SINGLE STUDENT MUST SHOW THIS LAB AND GET HIS OR HER PAPER SIGNED….