

# CPSC 231 Fall 2023

## Sample Exam 1

Your Name: \_\_\_\_\_

Your Student Number: \_\_\_\_\_

Tutorial 01

Do not turn the exam over until you are told to do so.

Good luck!

**Duration: 50 Minutes**

This is a closed book exam: Exams must be completed individually, following regulations on academic integrity. Only a pencil/pen and an eraser are allowed during the exams. Electronic devices, including laptops, cell phones, and calculators, must be turned off and stored in bags.

**Question 1:**

The following code is supposed to convert any temperature value given by the user from Fahrenheit to Celsius. The conversion formula is

$$\text{Celsius} = \frac{(\text{Fahrenheit} - 32) \times 5}{9}$$

However, there are errors in the code that prevent the code from correctly running. Point out and fix the errors so that the code runs correctly. Assume the user enters a valid input for the problem.

```
temp_f = input("Please enter a temperature in Fahrenheit:")
temp_c = (temp_f - 32) / 9 x 5
print("The temperature in Celsius is " , temp_c)
```

**Question 2:**

Write Python code that will ask the user to enter a month of the year (as integers 1 to 12), and then output which Term the month is in at UCalgary (If you are unaware: September to December is Fall Term, January to April is Winter Term, and May to August is Spring/Summer Term). If the user enters an integer other than 1 to 12, output that the month is invalid. You can assume the user enters an integer, so your code doesn't have to worry about handling cases where the user input is not an integer.