**CSC 2111 Lab 09**

**Objectives:**

* Learn about inheritance
* Explore how to redefine the member functions of a base class

**Question:**

First, Download **lab09.cpp**. In this file, the definition of the class clockType has given. Think of the class clockType as the base class. **Derive** the class extClockType from the class clockType, **by adding a class member variable to store the time zone (int tz)** and **necessary class member functions** to make the class functional. Finally, use the driver program to test your classes.

**Hint**: Extending the timezone is only one modification required by the extClockType derived class. Further modifications include:

* Override printTime() function to include the timezone in the output as given output format
* Overload setTime() function to accept the timezone in the parameter list
* Add the incrementTimeZones() function to add 1 hour to the current time zone.

You must not change the code in the driver program, and you should get the same output.

**Submit only the modified lab09.cpp file.**

**Output:**

