## < Object Oriented Programming - Assignments #4>

1. Implement a class Clock whose getHours and getMinutes methods return the current time at your location. (Call java.time.LocalTime.now().toString() and extract the time from that string.) Also provide a getTime method that returns a string with the hours and minutes by calling the getHours and getMinutes methods. Provide a subclass World-Clock whose constructor accepts a time offset. For example, if you live in Seoul, a new WorldClock(-14) should show the time in New York, forteen time zones behind. Which methods did you override? (You should not override getTime.)

## **Eccential Methods:**

[Clock.java] which is a superclass

- getHours
- getMinutes
- getTime

[WorldClock.java] which is subclass of the superclass Clock

- getHours: Override Method
- WorldClock class does not overide the getTime method.

## [Score Criteria]

- Comments in javadoc format for all classes and methods [1pt]
- Implementing the getHours, getMinuties, getTime method of Clock class [1pt]
- Implementing the appropritate constructor to set the offset value and the getHours overiding method of WorldClock class [1pt]
- Do not override the getTime method in WorldClock class [1pt]
- Implementing the WorldClockDemo.java to test the WorldClock class [1pt]
- Providing the appropriate output results and documentation (submission with external report combining all the sourcecode) [1pt]
- Code accuracy with the various input cases [1pt]

## [Example Prompt Result]

Base Time in Current Time-Zone

Hours: 14 Minutes: 23 Time: 14:23

World Clock Offset: -14

Hours: 0 Minutes: 23 Time: 0:23