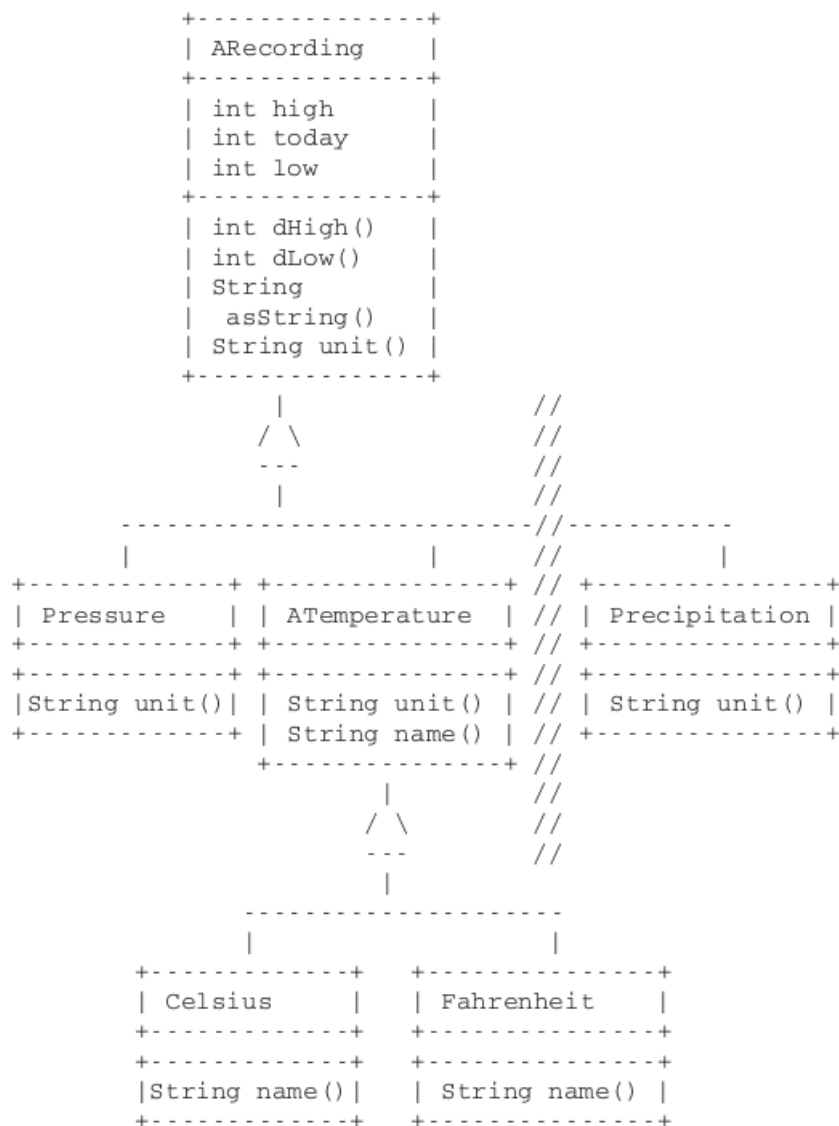# CMPE 261 - Large Scale Programming

Worksheet(Week-02B)

Part I

In this part you are asked implement classes according to following class diagrams. Because all classes have instant variable, you must write constructors that have parameters.

```
                    +---------------+
                    | ARecording    |
                    +---------------+
                    | int high      |
                    | int today     |
                    | int low       |
                    +---------------+
                    | int dHigh()   |
                    | int dLow()    |
                    | String        |
                    |   asString()  |
                    | String unit() |
                    +---------------+
                          |                    //
                         / \                   //
                         ---                   //
                          |                    //
            ----------------------------------//----------
            |                     |      //              |
    +--------------+ +---------------+ // +---------------+
    | Pressure     | | ATemperature  | // | Precipitation |
    +--------------+ +---------------+ // +---------------+
    +--------------+ +---------------+ // +---------------+
    |String unit()| | String unit() | // | String unit() |
    +--------------+ | String name() | // +---------------+
                     +---------------+ //
                            |          //
                           / \         //
                           ---         //
                            |
                    --------------------
                    |                  |
            +-------------+    +---------------+
            | Celsius     |    | Fahrenheit    |
            +-------------+    +---------------+
            +-------------+    +---------------+
            |String name()|    | String name() |
            +-------------+    +---------------+
```

Part II

In this part, write a **Test** class and get records about Pressure, Temperature (Fahrenheit and Celsius) and Precipitation.

Part III

Add a class to class diagrams for measuring the speed of the snow and its direction. Then give a report about wind in the Test class.

Part IV

Design the methods **fahrenheitToCelsius** and **celsiusToFahrenheit** for **Fahrenheit** and **Celsius** classes.