CMPE 101 - Intermediate Programming

Assignment-02

Worth 5% of the assignment mark!

Deadline: 09:00 Thursday, February 25

In your assignment, explain your code with *comments*. Without *comments*, your assignment will not be marked. All class and method names must be used according to OOP concept.

Problem

Write an application that inputs temperature in degrees **Celsius** or **Fahrenheit** from the console. If the inputs degree is **Celsius**, then the output degree is in **Celsius**, otherwise, if the input degree is in **Celsius**, then the output degree is in **Fahrenheit**.
The formula to convert degrees **Celsius** to equivalent degrees **Fahrenheit** is:

```
Fahrenheit = 1.8 x Celsius + 32
```

When you execute your program, you should have an interactive dialog as follow:

```
Welcome to the temperature conversion application!.
How do you like input temperature degree? (For Fahrenhei please just input F,
for Celsius input C).
Please input the degree in Celsius: // suppose a user have inputted "C"
The temperature you have intered in Celsius is:  --- it is equal to --- Fahrenheit
It is: (very cold, cold, mild, hot,very hot)

Have a nice day!

---------------------------
```

```
Please input the degree in Fahrenheit: // suppose a user have inputted "F"
The temperature you have intered in Fahrenheit is: -- it is equal to --- Celsius.
It is (very cold,cold, mild, hot, very hot)

Have a nice day!
```

To decide if the weather is very **cold, mild, hot or very hot**, please use the following formula: Suppose **t** represents the temperature in **Celsius**:

```
t < -20 : very cold
-20 <= t <= 0 : cold
0 < t <= 20:  mild
20 < t <= 35: hot
t > 35: very hot
```

Note: you are not allowed to use any IDE tools such Eclipse!.