

Java Math Operations

DIRECTIONS: Complete the following 2 applications with the given specifications.

1) Temperature Conversion

- Create an application called TempConverter, which prompts you to input a temperature in degrees Fahrenheit, and outputs in degrees Celsius.
- Update your program to ask the user if the starting temperature is in Celsius or Fahrenheit, and then convert to the other units.
- Add an option for Kelvin.

Sample Output:

```
Input temp in F (1) or C (2): 2
Input Celsius Temperature: 100
Temperature in Fahrenheit: 212
```

Hints: import the package: java.util.Scanner so you can create a Scanner and use the methods nextDouble() and nextInt()

$K = C + 273$

$C = (F - 32) * 5/9$

2) Distance

- Write an application that finds the distance between two points in the coordinate plane. Prompt the user for the first x, first y, second x, second y
- Extra fun step: have the user input in the format: (x1,y1),(x2,y2).

Sample Output:

```
Enter first x: 0
Enter first y: 0
Enter second x: 1
Enter second y: 0
Distance = 1
```