Java S16 Class 3 HW

Write a Java Program to solve each one of the problem. Please name your project as **Q#.Java**. Upload each file individually with a #java-class3 to @homeworkbot

- 1. Write a program that assigns integer variables a,b values and print the sum, difference, product, and modulus.
- 2. Write a program that lets you enter the radius of a circle and that prints both the circumference and the area of the circle.
- 3. Write a program that lets you enter a degree measure in Fahrenheit, and that prints the result in Celsius degree measure.
- 4. Write a program that lets you enter a distance in kilometers and that converts it into miles.

 1.6km = 1mile
- 5. Write a program that lets you enter a number of hours, and that converts it to days and hours.
- 6. Write a program that lets you enter a number of minutes, and that will calculate the number of days, hours and minutes that represents.
- 7. Write a program that lets you enter the two sides of a right angled triangle, and that prints the hypotenuse.
- 8. Write a program that lets you enter the three sides of any triangle, and that prints the area of the triangle using Heron's formula: Area = $(s(s-a) (s-b) (s-c))^{0.5}$ where s stands for half the perimeter, where s = ((a+b+c))/2.
- 9. Write a program that lets you enter two sides of a triangle and the contained angle, and that will use the cosine law to calculate the third side: If the sides are a,b and the angle is C, then the third side is given by ((a²+b²-2abCos(C))^{0.5}.