Unit Converter class tutorial:

1. Import the *jpsteed.professionals.converters* package into the program.
2. You may need this header at the top of your code:



1. To simplify using the Unit data type include this header as well:



1. Choose which converter class. To do conversion use one of the following functions:
   1. AreaConverter.convertArea()
   2. DensityConverter.convertDensity()
   3. LengthConverter.convertLength()
   4. MassConverter.convertMass()
   5. PressureConverter.convertPressure()
   6. TemperatureConverter.convertPressure()
   7. VolumeConverter.convertVolume()
2. Specify the arguments for the above function. Each function takes the following parameters (except Density):
   1. 1st parameter: input unit of type Unit
   2. 2nd parameter: output unit of type Unit
   3. 3rd parameter: input value of type double
3. Density uses the following parameters:
   1. 1st parameter: input mass unit of type Unit
   2. 2nd parameter: input volume unit of type Unit
   3. 3rd parameter: output mass unit of type Unit
   4. 4th parameter: output volume unit of type Unit
   5. 5th parameter: input value of type double
4. The Unit datatype name is used with the unit value keyword, for example:



1. Only certain unit value keywords are available for each converter class:
   1. Units for AreaConverter:
      1. ACRE //acre
      2. HECTARE //hectare
      3. SQMETER //square meter
      4. SQCENTIMETER //square centimeter
      5. SQMILLIMETER //square millimeter
      6. SQKILOMETER //square kilometer
      7. SQMILE //square mile
      8. SQINCH //square inch
      9. SQFOOT //square foot
      10. SQYARD //square yard
   2. Units for LengthConverter:
      1. INCH //inch
      2. FOOT //foot
      3. YARD //yard
      4. MILE //mile
      5. PICOMETER //picometer
      6. NANOMETER //nanometer
      7. MICROMETER //micrometer
      8. MILLIMETER //millimeter
      9. CENTIMETER //centimeter
      10. DECIMETER //decimeter
      11. METER //meter
      12. KILOMETER //kilometer
      13. MEGAMETER //megameter
      14. GIGAMETER //gigameter
   3. Units for MassConverter:
      1. OUNCE //ounce
      2. POUND //pound
      3. ATOMICMASSUNIT //atomic mass unit
      4. GRAM //gram
      5. MILLIGRAM //milligram
      6. KILOGRAM //kilogram
      7. METRICTON //metric ton
   4. Units for PressureConverter:
      1. ATMOSPHERE //atmosphere
      2. TORR //torr
      3. PASCAL //pascal
      4. KILOPASCAL //kilopascal
      5. MILLIMERCURY //millimeters of mercury (mmHg)
      6. POUNDSSQINCH //pounds per square inch (psi)
   5. Units for TemperatureConverter:
      1. KELVIN //kelvin
      2. CELSIUS //Celsius
      3. FAHRENHEIT //fahrenheit
   6. Units for VolumeConverter:
      1. CUBMETER //cubic meter
      2. CUBCENTIMETER //cubic centimeter
      3. CUBMILLIMETER //cubic millimeter
      4. CUBKILOMETER //cubic kilometer
      5. LITER //liter
      6. GALLON //gallon
      7. QUART //quart
      8. CUP //cup
      9. CUBFOOT //cubic foot
      10. MILLILITER //milliliter
      11. KILOLITER //kiloliter
   7. The volumeConverter class uses the same units as the mass and converter classes. I wouldn’t use all the units from each of these classes.
2. Example of the function in use:



1. All functions return a double.