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Incorrect Unit Conversion in Infant Temperature

The infant temperature is updated by calling the thermometer’s getTemperature() method and

subtracting 273. This works well when the units are in Kelvin, but will not work if the units are inCelsius or Fahrenheit. One fix that we implemented was creating a method called getDeg() whichreturns the units of the current temperature. We then call the getTemperature() method and convert the results appropriately. Since the graph is in Celsius, we convert the units to Celsius before appending to the infTemps array. If the current unit is Kelvin, we subtrack 273. If the current unit is celsius, we do no changes to the value. If the current unit is Fahrenheit then we convert from Fahrenheit to celsius. This is a vulnerability as temperature conversion is important to keeping the infant alive. If someone were looking at the graph temperature, they may assume something is terribly wrong.

Chart, line chart

Description automatically generated