1. Download the file TemperatureConversion.java from the Canvas site.
2. Study the program. The program performs conversions from Fahrenheit temperatures to Celsius temperatures. Here’s a sample run of the program:

A screenshot of a computer program

AI-generated content may be incorrect.

1. Re-design the program so that it uses methods to perform the temperature conversions. The user interactions and program output should be identical to the original program.
2. Justify the rationale for your re-design and specify one or more advantages of using methods.