**Week 1 M1: Programming Assignment  
Water Heat**

Juan Macias Vasquez

Bellevue University

CSD402-H323 Java for Programmers (2261-DD)

**Jack Lusby**

August 17th, 2025

Week 1 M1: Programming Assignment

GitHub Repository Link:

<https://github.com/Juan551School/csd-402>

I switched to eclipse as the IDE because it made some parts simpler to get the program to run and used it a bit before.

Found this to help with the inputs by using the scanner class   
<https://www.w3schools.com/java/java_user_input.asp>

**Java Code:**

**Module-info.java**

/\*\*

\*

\*/

/\*\*

\*

\*/

**module** MaciasM1ProjectAssignment {

}

**MainProject.java**

**package** mainproject;

**import** java.util.Scanner;

**public** **class** MainProject {

**public** **static** **void** main(String[] args) {

Scanner input = **new** Scanner(System.***in***);

// Ask the user for water amount

System.***out***.print("Enter the amount of water in kilograms: ");

**double** waterMass = input.nextDouble();

// Ask the user for initial temperature

System.***out***.print("Enter the initial temperature of the water (°C): ");

**double** initialTemperature = input.nextDouble();

// Ask the user for the final temperature

System.***out***.print("Enter the final temperature of the water (°C): ");

**double** finalTemperature = input.nextDouble();

// Calculate energy using the formula Q = waterMass \* (finalTemperature - initialTemperature) \* 4184

**double** energy = waterMass \* (finalTemperature - initialTemperature) \* 4184;

// Display the result

System.***out***.println("The energy needed to heat the water is " + energy + " Joules.");

input.close();

}

}

**Picture of Code Running:**

