Aravind B Vadavalki

Question 01: Build a program in Java that converts temperatures between Celsius and Fahrenheit.

Answer:This program takes a temperature in Celsius as input and converts it to Fahrenheit, and vice versa. It uses the conversion formulas:

Celsius to Fahrenheit: F = (C × 9/5) + 32

Fahrenheit to Celsius: C = (F − 32) × 5/9

Compile and run this program to use it for temperature conversions

Program

Import java.util.Scanner;

Public class TemperatureConverter {

  Public static void main(String[] args) {

    Scanner input = new Scanner(System.in);

    System.out.print("Enter temperature in Celsius: ");

    Double celsius = input.nextDouble();

    // Convert Celsius to Fahrenheit

    Double fahrenheit = (celsius * 9/5) + 32;

    System.out.println("Temperature in Fahrenheit: " + fahrenheit);

    System.out.print("Enter temperature in Fahrenheit: ");

    Double fahrenheitInput = input.nextDouble();

    // Convert Fahrenheit to Celsius

    Double celsiusConverted = (fahrenheitInput − 32) * 5/9;

```java
        System.out.println("Temperature in Celsius: " + celsiusConverted);

        Input.close();
    }
}
```