Task 1

import java.util.Scanner;

public class TemperatureConverter {  
 public static double celsiusToFahrenheit(double celsius) {  
 return (celsius \* 9 / 5) + 32;  
 } public static double celsiusToKelvin(double celsius) {  
 return celsius + 273.15;  
 }  
 public static double fahrenheitToCelsius(double fahrenheit) {  
 return (fahrenheit - 32) \* 5 / 9;  
 }

public static double fahrenheitToKelvin(double fahrenheit) {  
 return (*fahrenheitToCelsius*(fahrenheit)) + 273.15;  
 }  
 public static double kelvinToCelsius(double kelvin) {  
 return kelvin - 273.15;  
 }  
public static double kelvinToFahrenheit(double kelvin) {  
 return *celsiusToFahrenheit*(*kelvinToCelsius*(kelvin));  
 }  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
 System.*out*.println("Welcome to the Temperature Converter!");  
 System.*out*.print("Enter the temperature value: ");  
 double temperature = scanner.nextDouble();

System.*out*.print("Enter the original unit (C for Celsius, F for Fahrenheit, K for Kelvin): ");  
 char unit = scanner.next().toUpperCase().charAt(0);

switch (unit) {  
 case 'C':  
 System.*out*.printf("%.2f Celsius = %.2f Fahrenheit = %.2f Kelvin%n",  
 temperature, *celsiusToFahrenheit*(temperature), *celsiusToKelvin*(temperature));  
 break;  
 case 'F':  
 System.*out*.printf("%.2f Fahrenheit = %.2f Celsius = %.2f Kelvin%n",  
 temperature, *fahrenheitToCelsius*(temperature), *fahrenheitToKelvin*(temperature));  
 break;  
 case 'K':  
 System.*out*.printf("%.2f Kelvin = %.2f Celsius = %.2f Fahrenheit%n",  
 temperature, *kelvinToCelsius*(temperature), *kelvinToFahrenheit*(temperature));  
 break;  
 default:  
 System.*out*.println("Invalid unit. Please enter C, F, or K.");  
 }  
 scanner.close();

}  
}

