

MetricConversion Mastery ErrorLog

During my programming I didn't run across any logical or syntax errors.

```
public static void main(String[] args) {
    //Preparing for user input
    Scanner userInput = new Scanner(System.in);

    //Prints available conversions
    System.out.println("1. Inches > Centimeters");
    System.out.println("2. Centimeters > Inches");
    System.out.println("3. Feet > Centimeters");
    System.out.println("4. Centimeters > Feet");
    System.out.println("5. Yards > Meters");
    System.out.println("6. Meters > Yards");
    System.out.println("7. Miles > Kilometers");
    System.out.println("8. Kilometers > Miles");

    //Prompt and record user input
    System.out.print("Enter a operator: ");
    int operator = userInput.nextInt();

    //Calls method corresponding to user input
    switch(operator) {
        case 1:
            inToCm();
            break;
        case 2:
            cmToIn();
            break;
        case 3:
            ftToCm();
            break;
        case 4:
            cmToFt();
            break;
        case 5:
            ydToM();
            break;
        case 6:
            mToYd();
            break;
        case 7:
            miToKm();
            break;
        case 8:
            kmToMi();
            break;
    }
}
```

```
package Mastery;

import java.util.Scanner;

public class MetricConversion {

    static void inToCm() {
        //Preparing for user input
        Scanner userInput = new Scanner(System.in);

        //Declaration
        double centimeters;

        //Prompt and record user input
        System.out.print("Enter number of inches: ");
        double inches = userInput.nextDouble();

        //Calculate conversion
        centimeters = inches * 2.54;

        //Print conversion
        System.out.print(inches + " inches equals " + centimeters + " centimeters.");
    }

    static void cmToIn() {
        //Preparing for user input
        Scanner userInput = new Scanner(System.in);

        //Declaration
        double inches;

        //Prompt and record user input
        System.out.print("Enter number of centimeters: ");
        double centimeters = userInput.nextDouble();

        //Calculate conversion
        inches = centimeters / 2.54;

        //Print conversion
        System.out.print(centimeters + " centimeters equals " + inches + " inches.");
    }
}
```

```

static void ftToCm() {
    //Preparing for user input
    Scanner userInput = new Scanner(System.in);

    //Declaration
    double centimeters;

    //Prompt and record user input
    System.out.print("Enter number of feet: ");
    double feet = userInput.nextDouble();

    //Calculate conversion
    centimeters = feet * 30;

    //Print conversion
    System.out.print(feet + " feet equals " + centimeters + " centimeters.");
}

static void cmToFt() {
    //Preparing for user input
    Scanner userInput = new Scanner(System.in);

    //Declaration
    double feet;

    //Prompt and record user input
    System.out.print("Enter number of centimeters: ");
    double centimeters = userInput.nextDouble();

    //Calculate conversion
    feet = centimeters / 30;

    //Print conversion
    System.out.print(centimeters + " centimeters equals " + feet + " feet.");
}

static void ydToM() {
    //Preparing for user input
    Scanner userInput = new Scanner(System.in);

    //Declaration
    double meters;

    //Prompt and record user input
    System.out.print("Enter number of yards: ");
    double yards = userInput.nextDouble();

    //Calculate conversion
    meters = yards * 0.91;

    //Print conversion
    System.out.print(yards + " yards equals " + meters + " meters.");
}

```

```

static void mToYd() {
    //Preparing for user input
    Scanner userInput = new Scanner(System.in);

    //Declaration
    double yards;

    //Prompt and record user input
    System.out.print("Enter number of meters: ");
    double meters = userInput.nextDouble();

    //Calculate conversion
    yards = meters / 0.91;

    //Print conversion
    System.out.print(meters + " meters equals " + yards + " yards.");
}

static void miToKm() {
    //Preparing for user input
    Scanner userInput = new Scanner(System.in);

    //Declaration
    double kilometers;

    //Prompt and record user input
    System.out.print("Enter number of miles: ");
    double miles = userInput.nextDouble();

    //Calculate conversion
    kilometers = miles * 1.6;

    //Print conversion
    System.out.print(miles + " miles equals " + kilometers + " kilometers.");
}

static void kmToMi() {
    //Preparing for user input
    Scanner userInput = new Scanner(System.in);

    //Declaration
    double miles;

    //Prompt and record user input
    System.out.print("Enter number of kilometers: ");
    double kilometers = userInput.nextDouble();

    //Calculate conversion
    miles = kilometers / 1.6;

    //Print conversion
    System.out.print(kilometers + " kilometers equals " + miles + " miles.");
}

```