ReflectionLogs -MetricConversion[Mastery]

```
public static void main(String[] args) {
    // TODO Auto-generated method stub

    //Preparing for user input
    Scanner input = new Scanner(System.in);

    //Declare variables
    int conversion;
```

So far I have just made user_input accessible, and declared the variable name for converting units.

Now I asked the user what units they want to convert from, and to. Next I am going to add methods which the user can call to for the conversion.

```
public static void inchesToCenti() {
    //Preparing for user input
    Scanner input = new Scanner(System.in);
    System.out.print("Enter the value you want to convert from.");
    int user_input = input.nextInt();
    double Converted = user_input * 2.54;
    System.out.print("The value " + user_input + " inches is equal to about " + (int)Converted + " centimeters.");
}
```

Above the main method, I have created one out of the 8 methods for conversion. I added the ability to get user_input, and asked the user to enter their number. After that, the calculation is done for the conversion, in this case inches * 2.54 is equal to the amount of centimeters. Now I will create the other 7 methods by copy pasting and changing a bit of the calculations up, and displaying the values.

```
conversion = input.nextInt(); //Enter
if (conversion == 1)
    inchesToCenti();
   (conversion == 2)
    feetToCenti();
  (conversion == 3)
    yardsToMeters();
   (conversion == 4)
    milesToKilometers();
   (conversion == 5)
    centiToInches();
   (conversion == 6)
    centiToFeet();
   (conversion == 7)
    metersToYards();
   (conversion == 8)
    kiloToMiles();
```

To finish off the code, I created the other 7 methods and created an if statement. This if statement checks the value entered by the user, and calls a method based on that value.