

Credit Name:CSE 2110 - Procedural Programming 1

Assignment Name: Chapter 6 Portfolio

Error Log Entry

What error message did you encounter (if any)?

I had a couple of errors in this code. My first error was in formating the actual output message that the user sees. I for some reason couldn't imidately grasp how to format it so that the menu was in 4 consecutive lines instead of 8. My second error, a more serious one, was that I didn't know how to introduce the variable that contained the user's number into the method.

What unexpected behavior did your program exhibit?

1. The program looked messy and wasn't exactly formated to what the desired program was supposed to look like. 2. Java wouldn't allow the program to run since it was starred and had red underlines under the unidentified variables

What caused the issue? (e.g., syntax error, logic error, incorrect function usage, etc.)

1. This was a logic error that was my fault; 2. This was a compiler-time error that was detected by the program itself.

Include a screenshot of specific lines of code.

The screenshot shows a Java code editor and a terminal window. The code editor has two sections labeled 1 and 2. Section 1 contains a main method with several System.out.println statements. Section 2 contains a static void method named inchesToCentimeters. The terminal window shows the output of the program, including a menu of conversion options and an input prompt 'Enter a number:'. A cursor is visible in the code editor at the end of the print statement in section 2.

```
1
System.out.print("1. Inches to Centimeters      5. Centimeters to Inches ");
System.out.print("2. Feet to Centimeters      6. Centimeters to Feet ");
System.out.print("3. Yards to Meters      7. Meters to Yards ");
System.out.print("4. Miles to Kilometers      8. Kilometers to Miles ");
2
public static void inchesToCentimeters() {
    double cm = inches * 2.54;
    System.out.print(inches + " inches equals to " + cm + " centimeters");
}
```

How did you fix the issue?

1. This error was very simple in fixing as all I was missing was the In next to the print in System.out.print. Instead of displaying like code on one whole line, this helped in telling the code to move to the next line for the following message.

2. This error was a little tricky for me to fully understand. In my head I thought you were separetely do the declartion of the varabale at a later time, but obviously I was wrong. Instead of doing this, I learned that you could simply just create a parameter that will be within that method itself. Once I figured out this one mishap It was relatively easy to continue the process on the other methods

Provide the corrected code or solution using a screenshot.

The screenshot shows the corrected code. The main method remains the same as in the previous screenshot. The static void method 'inchesToCentimeters' now takes a 'double inches' parameter and prints the result using an f-string. The IDE shows no errors.

```
1
System.out.println("Convert: ");
System.out.println("1. Inches to Centimeters      5. Centimeters to Inches ");
System.out.println("2. Feet to Centimeters      6. Centimeters to Feet ");
System.out.println("3. Yards to Meters      7. Meters to Yards ");
System.out.println("4. Miles to Kilometers      8. Kilometers to Miles ");
2
public static void inchesToCentimeters(double inches) {
    double cm = inches * 2.54;
    System.out.print(inches + " inches equals to " + cm + " centimeters");
}
```

FULL COMPLETED CODE

```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    Scanner input = new Scanner(System.in);

    System.out.print("Enter a number: ");
    double number= input.nextDouble();

    System.out.println("Convert: ");

    System.out.println("1. Inches to Centimeters      5. Centimeters to Inches ");
    System.out.println("2. Feet to Centimeters      6. Centimeters to Feet ");
```

```
System.out.println("3. Yards to Meters      7. Meters to Yards");
System.out.println("4. Miles to Kilometers    8. Kilometers to Miles");

System.out.print("Enter your choice: ");
int choice = Input.nextInt();

if (choice == 1) inchesToCentimeters(number);
else if (choice == 2) feetToCentimeters(number);
else if (choice == 3) yardsToMeters(number);
else if (choice == 4) milesToKilometers(number);
else if (choice == 5) centimetersToInches(number);
else if (choice == 6) centimetersToFeet(number);
else if (choice == 7) metersToYards(number);
else if (choice == 8) kilometersToMiles(number);
else System.out.println("Invalid choice.");
```