MetricConversion Reflection Logs -

Created a shell of all the methods, which will contain code for each type of metric conversion

```
public class MetricConversion {

    public static void inchToCm() {

    }

    public static void feetToCm() {

    }

    public static void yardToM() {

    }

    public static void mileToKm() {

    }

    public static void cmToInch() {

    }

    public static void cmToFeet() {

    }

    public static void mToYard() {

    }

    public static void kmToMile() {

    }
```

Decided to do the main() method first since it's simple, although somewhat time consuming

```
  // Declaration and initiation, preparing for user input
  Scanner Input = new Scanner(System.in);
  int userChoice;

  System.out.println("Choose from one of the below conversions - ");
  System.out.println("");
  System.out.println("1 - Inches to centimetres     5 - Centimetres to Inches ");
  System.out.println("2 - Feet to centimetres       6 - Centimetres to Feet ");
  System.out.println("3 - Yards to metres           7 - Metres to yards ");
  System.out.println("4 - Miles to kilometres       8 - Kilometres to miles ");
  System.out.println("");
  System.out.print("Enter your choice - ");
  userChoice = Input.nextInt();

  // Creating a switch statement to execute the associated function
  switch(userChoice) {

      case 1: inchToCm();
      case 2: feetToCm();
      case 3: yardToM();
      case 4: mileToKm();
      case 5: cmToInch();
      case 6: cmToFeet();
      case 7: mToYard();
      case 8: kmToMile();

  }
```

Wrote a similar piece of code for each method, with only the variables and numbers being switched, and the final output statement having different words.

```java
public static void inchToCm() {

    // Declaration and initiation
    Scanner Input = new Scanner(System.in);
    System.out.print("Input the number of inches - ");
    int inch = Input.nextInt();
    double cm = inch * 2.54;
    System.out.println(inch + " inches equals " + cm + " centimetres");

}
```