```java
public static void inchToCenti (int usernumbr) {
		//declaring variables for conversion calculation
		double conversion = usernumbr * 2.54;
		System.out.println("Your new measurement is:  " + conversion + "Cm");
	}

	public static void feetToCenti (int usernumbr) {
		//declaring variables for conversion calculations
				double conversion = usernumbr * 30.54;
				System.out.println("Your new measurement is:  " + conversion + "Cm");
	}

	public static void yardToMeter (int usernumbr) {
		//declaring variables for conversion calculations

				double conversion = usernumbr / 1.094;
				System.out.println("Your new measurement is:  " + conversion + "M");
	}

	public static void mileToKilometer (int usernumbr) {
		//declaring variables for conversion calculations

				double conversion = usernumbr * 1.609;
				System.out.println("Your new measurement is:  " + conversion + "Km");
	}

	public static void centiToInch (int usernumbr) {
		//declaring variables for conversion calculations

				double conversion = usernumbr / 2.54;
				System.out.println("Your new measurement is:  " + conversion + "Inches");
	}

	public static void centiToFeet (int usernumbr) {
		//declaring variables for conversion calculations

				double conversion = usernumbr / 30.48;
				System.out.println("Your new measurement is:  " + conversion + "Ft");
	}

	public static void meterToYards (int usernumbr) {
		//declaring variables for conversion calculations

				double conversion = usernumbr * 1.094;
				System.out.println("Your new measurement is:  " + conversion + "Yards");
	}

	public static void KilometerToMiles (int usernumbr) {
		//declaring variables for conversion calculations
```

```
                                double conversion = usernumbr / 1.609;
                                System.out.println("Your new measurement is:  " + conversion + "cm");
        }
        public static void main(String[] args) {
                Scanner input = new Scanner(System.in);
```

I first started off by listing all my different types of methods for every single different conversion, I included all the different calculations that the system will have to conduct to get the desired result. I did this by declaring a variable within the method and then used a double since we are dealing with numbers, with conversion as a variable that is the users number multiplied or divided by the conversion factor. I repeated this process for every conversion method.

```
public static void main(String[] args) {
                Scanner input = new Scanner(System.in);
//declarations
        int usernumbr, conversion;
        System.out.println("Please enter a number:      ");
        usernumbr = input.nextInt();

        //asking user to choose a conversion method

        System.out.println("Conversions: ");
        System.out.println("Choose a conversion method 1-8:  ");
        System.out.println("1. Inches to Centimeters ");
        System.out.println("2. Feet to Centimeters ");
        System.out.println("3. Yards to Meters ");
        System.out.println("4. Miles to Kilometers ");
        System.out.println("5. Centimeters to Inches ");
        System.out.println("6. Centimeters to Feet ");
        System.out.println("7. Meters to Yards ");
        System.out.println("8. Kilometers to Miles ");
        conversion = input.nextInt();
```

In the main method, i declared my variables for user input
The system will asks what kind of conversion method the user wants to use and display all the different types, this is conducted by system.out.println

```
switch (conversion) {
        case 1:
                inchToCenti(usernumbr);break;
        case 2:
```

```
            feetToCenti(usernumbr);break;
        case 3:
            yardToMeter(usernumbr);break;
        case 4:

        mileToKilometer(usernumbr);break;
        case 5:

            centiToInch(usernumbr);break;

        case 6:

            centiToFeet(usernumbr);break;
        case 7:

            meterToYards(usernumbr);break;

        case 8:

            KilometerToMiles(usernumbr);break;
```

I used a switch case here to correspond the choices they responded with the correct conversion type.