

```

1 package com.publiccept;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         float myMinFloatValue = Float.MIN_VALUE;
8         float myMaxFloatValue = Float.MAX_VALUE;
9         System.out.println("Float minimum value: " + myMinFloatValue); // 1.4E-45
10        System.out.println("Float maximum value: " + myMaxFloatValue); // 3.4028235E38
11
12        double myMinDoubleValue = Double.MIN_VALUE;
13        double myMaxDoubleValue = Double.MAX_VALUE;
14        System.out.println("Double minimum value: " + myMinDoubleValue); // 4.9E-324
15        System.out.println("Double maximum value: " + myMaxDoubleValue); // 1.7976931348623157E308
16
17        int myIntValue = 5;
18        //float myFloatValue = 5.15; // error: double is default floating point data type in Java!
19        float myFloatValue = 5.15f; // must be declared by "f"
20        float myFloatValueTwo = (float) 5.15; // casted float (not recommended)
21        double myDoubleValue = 5.25d; // double = standard for floating point data type in Java
22        double myDoubleValueTwo = 5.25; // double = standard for floating point data type in Java
23        double myDoubleValueThree = 5.00; // double: x.00 > automatically double
24
25        myIntValue = 5 / 3;
26        myFloatValue = 5f / 3f;
27        myDoubleValue = 5d / 3d;
28        System.out.println("MyIntValue = " + myIntValue); // 1
29        System.out.println("MyFloatValue = " + myFloatValue); // 1.6666666
30        System.out.println("MyDoubleValue = " + myDoubleValue); // 1.6666666666666667
31
32        //kilo - pounds challenge
33        double numberOfPounds = 200d;
34        double convertedKilograms = numberOfPounds * 0.45359237d;
35        System.out.println("Converted Kilograms = " + convertedKilograms ); // 90.718474
36
37        //pi
38        double pi = 3.1415927d;
39        double anotherNumber = 3_000_000.456_789_0d;
40        System.out.println(pi); // 3.1415927
41        System.out.println(anotherNumber); // 3000000.456789
42    }
43 }
44

```