## Chapter 5 Loops - Programming Exercises - for Loops

Draw a flowchart for the following scenarios, then implement the flowcharts:

1. Print a miles and kilometers equivalency table similar to the one below, but continue to 100 miles (1 mile = 1.609 kilometers). Make sure to format the chart, have headings, and display the numbers to 2 decimal places.

Miles	Kilometers
5	8.04
10	16.09
15	24.13
20	32.18

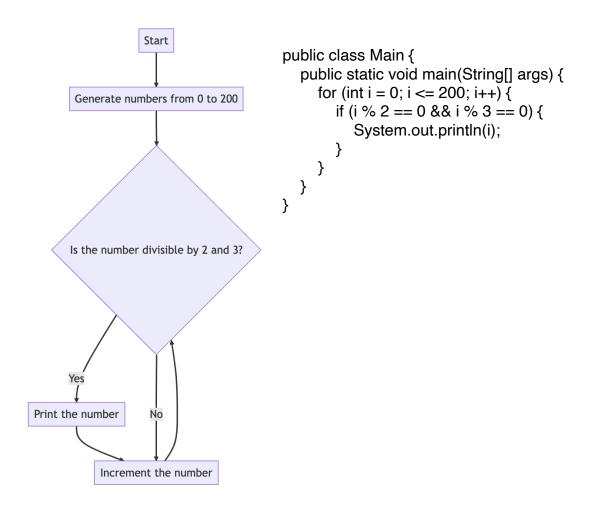
```
public class Main {
   public static void main(String[] args) {
      System.out.printf("%-10s %-10s%n", "Miles", "Kilometers");
      for (int miles = 5; miles <= 100; miles += 5) {
            double kilometers = miles * 1.609;
            System.out.printf("%-10d %-10.2f%n", miles, kilometers);
      }
    }
}</pre>
```

2. Print a kilograms to pounds equivalency table similar to the one below, but continue down to 1 kilogram (1 kilogram = 2.2 pounds). Make sure to format the chart, have headings, and display the numbers to 2 decimal places.

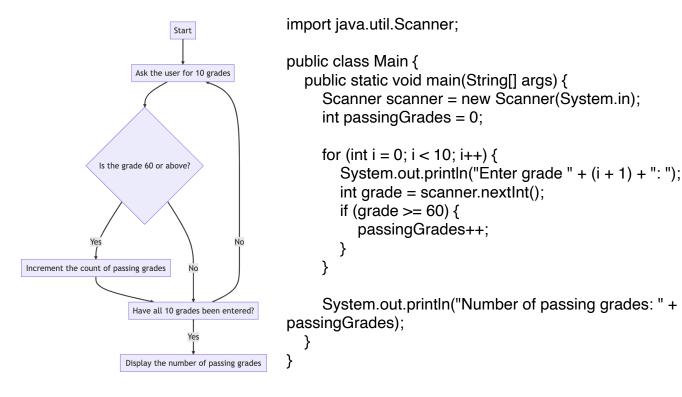
Kilograms	Pounds
20	44
19	41.8
18	39.6
17	37.4

```
public class Main {
   public static void main(String[] args) {
        System.out.printf("%-10s %-10s%n", "Kilograms", "Pounds");
        for (int kilograms = 20; kilograms >= 1; kilograms--) {
            double pounds = kilograms * 2.2;
            System.out.printf("%-10d %-10.2f%n", kilograms, pounds);
        }
    }
}
```

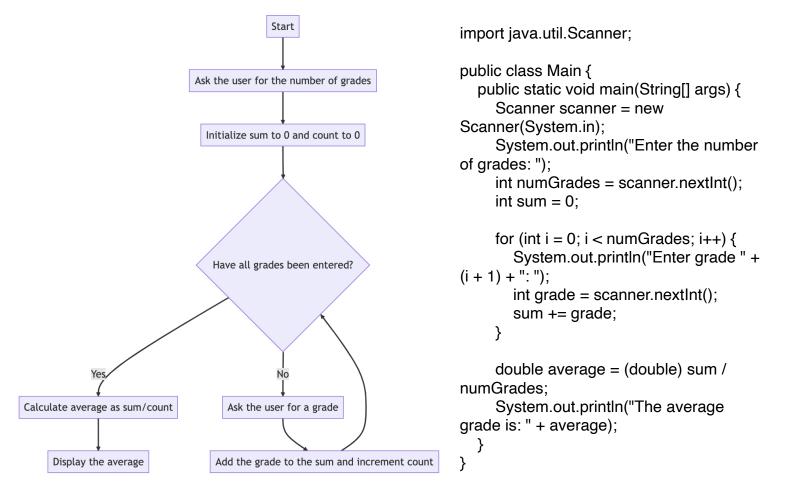
## 3. Display the numbers between 0 and 200 that are evenly divisible by both 2 and 3



## 4. Ask the user for 10 grades, display the number of grades that are passing (60 and above)



5. Prompt the user for how many grades will be entered to find the average of the grades. Then prompt the user to enter the grades, find the average and display it.



## 6. Display the ASCII table by rows with 10 in each row