This homework must be done in Eclipse and your .java file uploaded to desire2learn. Please follow the directions.

MPL (optional)
Do all the questions from section 1.1, 1.2 and 1.3 in myprogramminglab.com

Eclipse/Java
For this question you must write a program in Java as described below.

Make sure your java program has a comment at the beginning that includes your name and the fact that this is homework 3.

Make sure your program is properly indented.

Your program needs a main method and might need other methods.

After you have written it, compile it and run it to make sure it works. You will not get any credit if you program does not compile and run!

Then submit to desire2learn your .java file and your .class file.

Program Description:
1. Write a program called "Numbers" that calls three methods. The three methods are: printNumbers(), printOdds(), and printEvens().
   The first method prints all numbers between 1 and 30 (inclusive).
   The second method prints all the odd numbers between 1 and 30 (inclusive). The third method prints all the even numbers between 1 and 30 (inclusive).

   Note: All of the numbers for each loop should be printed out on the same line with a nice header such as….

   The even numbers are 2, 4, 6, 8, ….. etc.

   The main method should call the other three methods.

2. Write a program that prints sum and average of the numbers from 1 to 100. Use for loop to generate numbers from 1 to 100.

3. Write a program that prints the multiplication table for numbers from 1 to 10 using nested for loops. Your program should print:

```
1 x 1 = 1
1 x 2 = 2
.
.
.
1 x 10 = 10
--------------------------
2 x 1 = 2
2 x 2 = 4
.
.
.
1 x 10 = 10
--------------------------
.
.
.
10 x 9 = 90
10 x 10 = 100
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```