Object-Oriented Programming – Lab 01

Your first Java programs.
Some exercises are adapted from Deitel & Deitel’s Java How to Program 6th Ed. Ch. 2.

Task 0.
Make sure you have created your bitbucket account and inform the lab instructor of your username.
Now, create a project named `lab01`, set it to 'private' and grant read permission to `khuongnd` (your lab instructor's account). Make sure that the project name is exactly `lab01`, not `Lab01` or `lab 01` or `lab1`.
All the source code you will write as part of this lab section should be put in this project.
On how to do so, refer to the Bitbucket mini guide at the course’s website.

This task is to be done for every lab section, though project names will be `lab02`, `lab03`,…accordingly.

Task 1.
Compile, and run the following program:
```java
class TestGreeting {
  public static void main (String[] args) {
    System.out.println("Hello, world");
  }
}
```

Task 2.
a. Compile, and run the following program. Try to understand the code from the comments.
```java
// Fig. 2.7: Addition.java
// Addition program that displays the sum of two numbers.
// program uses class Scanner
import java.util.Scanner;

public class Addition {
  // main method begins execution of Java application
  public static void main( String args[] )
  {
    // create Scanner to obtain input from command window
    Scanner input = new Scanner( System.in );

    int number1; // first number to add
    int number2; // second number to add
    int sum; // sum of number1 and number2

    System.out.print( "Enter first integer: " ); // prompt
    number1 = input.nextInt(); // read first number from user

    System.out.print( "Enter second integer: " ); // prompt
    number2 = input.nextInt(); // read second number from user

    sum = number1 + number2; // add numbers

    System.out.printf( "Sum is %d\n", sum ); // display sum
  }
}
```
b. Write an application that asks the user to enter two integers, obtains them from the user and prints their sum, product, difference and quotient (division). Use the techniques shown in a.

Task 3.
Write an application that inputs three integers from the user and displays the sum, average, product, smallest and largest of the numbers. [Note: The calculation of the average in this exercise should result in an integer representation of the average. So if the sum of the values is 7, the average should be 2, not 2.3333....]

Task 4.
Write an application that reads two integers, determines whether the first is a multiple of the second and prints the result. [Hint: Use the remainder operator.]