Intro2CS HW 01

1. AddTwo

```
3. * Adds two given integers and prints the result in a fancy way.
4. */
5. public class AddTwo {
6.
     public static void main(String[] args) {
7.
           int first_number = Integer.parseInt(args[0]);
           int second_number = Integer.parseInt(args[1]);
8.
9.
           int sum = first_number + second_number;
10.
           String out = first_number + " + " + second_number +
11.
                      " = " + sum;
12.
13.
14.
           System.out.println(out);
15.
16.}
17.
```

2. Coins

3. Linear Equation Solver

4. Triangle

```
/*
 * Three sides can form a triangle if the sum of the lengths of any two sides
is greater than the length of the remaining side.
 * This is known as the Triangle Inequality Theorem.
 * Write a program that tests if three given integers form a triangle.
 */
public class Triangle {
    public static void main(String[] args) {
        int a = Integer.parseInt(args[0]);
        int b = Integer.parseInt(args[1]);
        int c = Integer.parseInt(args[2]);

        boolean is_triangle = (a + b > c) && (b + c > a) && (a + c > b);
        String output = a + ", " + b + ", " + c + ": " + is_triangle;

        System.out.println(output);
    }
}
```

5. Gen3

```
* Generates three random integers, each in a given range [a,b),
public class GenThree {
    public static void main(String[] args) {
        int min_limit = Integer.parseInt(args[0]);
        int max_limit = Integer.parseInt(args[1]);
        // generate rand values in the given range (max not inclusive)
        int rand_1 = (int)(Math.random()*(max_limit - min_limit)) + min_limit;
        int rand_2 = (int)(Math.random()*(max_limit - min_limit)) + min_limit;
        int rand_3 = (int)(Math.random()*(max_limit - min_limit)) + min_limit;
        // finding minimum generated value
        int min_rand = Math.min(rand_1, Math.min(rand_2, rand_3));
        //output
        System.out.println(rand_1);
        System.out.println(rand_2);
        System.out.println(rand_3);
        System.out.println("The minimal generated number was " + min_rand);
```