Homework #1

1.

```
public class AddTwo {
	public static void main(String[] args) {
		// Declaration of 2 new integers.
		int num1, num2;
		// Inputting numbers into the variables
		num1 = Integer.parseInt(args[0]);
		num2 = Integer.parseInt(args[1]);
		// Creating a new variable and putting the sum of num1,num2
into it
		int num3 = num1+num2;
		// Prints the output
		System.out.println(num1 + " + " + num2 + " = "+ num3);
	}
}
```

2.

```
public class Coins {
	public static void main(String[] args) {
		//Creates a new variable and inputs the first input into it
		int coins = Integer.parseInt(args[0]);
		// Checks for the numbers of quarters needed
		int quarters = coins/25;
		//Checks the number of cents needed
		int cents = coins - (quarters*25);
		// Prints the output
		System.out.println("Use " + quarters + " quarters and " + cents +
" cents");
	}
}
```

3.

```
public class LinearEq {
    public static void main(String[] args) {
          // Generates 3 variables and inserts the inputs into them.
           double NumA = Double.parseDouble(args[0]);
           double NumB = Double.parseDouble(args[1]);
           double NumC = Double.parseDouble(args[2]);
           //Re-arranges the equation in order to find the X
           double NumD = (NumC-NumB)/NumA;
          //Prints the result
          System.out.println(NumA + " * x + " + NumB + " = " + NumC);
          System.out.println("x = " + NumD);

    }
}
```

4.

```
public class Triangle {
	public static void main(String[] args) {
		// Creates 3 variables, and inserts the input into them.
		int NumA = Integer.parseInt(args[0]);
		int NumB = Integer.parseInt(args[1]);
		 int NumC = Integer.parseInt(args[2]);
		// Creates a new number from the 2 sides of the triangle.
		int NumD = NumA + NumB;
				// Checks if the sum of two sides of the triangle are
		bigger than the 3rd side.
		boolean Flag = NumD > NumC;
		//Prints the answer.
		System.out.println("The conclousion that the numbers" + NumA
+ " " + NumB + " " + NumC);
		System.out.println("is: " + Flag);


	}
}
```

5.

```
public class GenThree {
	public static void main(String[] args) {
		// Inputs upper and lower border
		double upper = Double.parseDouble(args[0]);
		double lower = Double.parseDouble(args[1]);
		// Generating 3 random numbers in the borders.
		int num1 = (int)((upper-lower) * Math.random() + lower);
		System.out.println(num1);
		int num2 = (int)((upper-lower) * Math.random() + lower);
		System.out.println(num2);
		int num3 = (int)((upper-lower) * Math.random() + lower);
		System.out.println(num3);
		// Checks for the min number
		int min = Math.min(num1, num2);
		min = Math.min(min, num3);
		System.out.println("The minimal generated number was "+ min);

	}
}
```