Java Code Documentation

AddTwo.java

```
/*
 * Adds two given integers and prints the result in a fancy way.
 */
public class AddTwo {
 public static void main(String[] args) {
  int x = Integer.parseInt(args[0]);
  int y = Integer.parseInt(args[1]);
  System.out.println(x + " + " + y + " = " + (x + y));
 }
}
```

Java Code Documentation

Coins.java

```
/*
 * Write a program that gets a quantity of cents as a command-line argument.
 * The program prints how to represent this quantity using as many quarters as possible, plus the remainde
 */
public class Coins {
 public static void main(String[] args) {
  int total = Integer.parseInt(args[0]);
        int quarters = total / 25;
        int cents = total % 25;
        System.out.println("Use " + quarters + " quarters and " + cents + " cents");
 }
}
```

Java Code Documentation

GenThree.java

```
/*
 * Generates three random integers, each in a given range [a,b),
 * prints them, and then prints the minimal number that was generated.
 */
public class GenThree {
 public static void main(String[] args) {
  int a = Integer.parseInt(args[0]);
        int b = Integer.parseInt(args[1]);
        int min = Math.min(a,b);
        int max = Math.max(a,b);
        int random1 = (int) (Math.random() * (max - min) + min);
        int random2 = (int) (Math.random() * (max - min) + min);
        int random3 = (int) (Math.random() * (max - min) + min);
        int minrandom = Math.min(random1, Math.min(random2,random3));
        System.out.println(random1);
        System.out.println(random2);
        System.out.println(random3);
        System.out.println("The minimal generated number was " + minrandom);
 }
}
```

Java Code Documentation

LinearEq.java

```
/*
 * Solves linear equations of the form a?x + b = c.
 * The program gets a, b, and c as command-line arguments,
 * computes x, and prints the result.
 * Treats the three arguments as well as the computed value as double values
 */
public class LinearEq {
 public static void main(String[] args) {
   double a = Double.parseDouble(args[0]);
   double b = Double.parseDouble(args[1]);
   double c = Double.parseDouble(args[2]);
   double x = (c - b) / a;
   System.out.println(a + " * x + " + b + " = " + c);
   System.out.println("x = " + x);
 }
}
```

Java Code Documentation

Triangle.java

```
/*
 * Three sides can form a triangle if the sum of the lengths of any two sides is greater than the length of the
 * 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 result = ((a+b)>c) && ((a+c)>b) && ((b+c)>a);
        System.out.println(a + ", " + b + ", " + c + ": " + result);
 }
}
```