HW1 – Ram Hamrani – ID 209134295

```
/*
 * Adds two given integers and prints the result in a fancy way.
 */


public class AddTwo {
    public static void main(String[] args) {
        // Declare veriables
    int a = Integer.parseInt(args[0]);
    int b = Integer.parseInt(args[1]);
    int c = a + b;
    System.out.println(a + " + " + b + " = "  + c);
    }
}
/*
 * 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 remainder in cents.
 */
public class Coins {
public static void main(String[] args) {
int a = Integer.parseInt(args[0]);
int b = 25;
int c = a%b;
System.out.println(" Use " + a/b + " quarters and " + c + " cents");
}
}
```

```
/*
 * 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, b, c, x;
        a = Double.parseDouble(args[0]);
        b = Double.parseDouble(args[1]);
        c = Double.parseDouble(args[2]);
x = (c-b)/a;
System.out.println( a + " * x " + "+ " + b + " = " + c);
System.out.println("x = " + x);

}
}
```

```
/*
 * 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, b, c;
        a = Integer.parseInt(args[0]);
        b = Integer.parseInt(args[1]);
        c = Integer.parseInt(args[2]);
    boolean istriangle = ((a + b > c) && (a + c > b )&& (b + c > a ));
    System.out.println(a + ", " + b + ", " + c + ": " + istriangle);

}
}
```

```
/*
 * 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) {
Double a = Double.parseDouble(args[0]);
Double b = Double.parseDouble(args[1]);

Double range = (b-a) ;

int FirstNum = (int)((Math.random() * range) + a );
int SecondNum =  (int)(((Math.random() * range)) + a );
int ThirdNum = (int)(((Math.random() * range)) + a );

int MinNum = (int)((Math.min(FirstNum, (Math.min (SecondNum,
ThirdNum)))));

System.out.println( FirstNum );
System.out.println( SecondNum );
System.out.println( ThirdNum );

System.out.println("The lowest number value is "  + MinNum);

        }
}
```