<u>HW1 Code - Alon Morad</u>

AddTwo

```
public class AddTwo {
   public static void main(String[] args) {
      // declares two int variables and gets them from user
            int a = Integer.parseInt(args[0]);
            int b = Integer.parseInt(args[1]);
      // prints the program name and user input
            System.out.println("% java AddTwo " + a + " " + b);
      // prints the sum
            System.out.println(a + "+" + b + "=" + (a+b));
    }
}
```

2. Coins

```
public class Coins {
    public static void main(String[] args) {
        // decalers int variable and gets them from user
            int cents = Integer.parseInt(args[0]);
        // prints the program name and user input
            System.out.println("% java Coins " + cents);
        // prints the amout of quarters and cents the user needs
            System.out.println("Use " + cents/25 + " quarters" + "
and " + cents%25 + " cents");
    }
}
```

3. Linear Equation Solver

4. Triangle

```
public class Triangle {
    public static void main(String[] args) {
      // declares three int variables and gets them from user
           int a = Integer.parseInt(args[0]);
           int b = Integer.parseInt(args[1]);
           int c = Integer.parseInt(args[2]);
           boolean possible;
     // checks if triange is possible by calculation of the lengths
of the sides
           System.out.println("% java Triangle " + a + " " + b + " "
+ c);
           if (a+b > c \&\& a+c > b \&\& b+c > a)
                possible = true;
           else
                possible = false;
     // prints the sides and if triangle is possible
           System.out.println(a + ", " + b + ", " + c + ": " +
possible);
    }
}
```

5. Gen3

```
import java.util.Random;
     public class Gen3 {
    public static void main(String[] args) {
      // declares two int variables and gets them from user
           int a = Integer.parseInt(args[0]);
           int b = Integer.parseInt(args[1]);
           System.out.println("% java Gen3 " + a + " " + b);
     // creating a new random object
           Random random = new Random();
     // generating three random numbers in range and prints them
           int first = random.nextInt((b - a) + 1) + a;
           int second = random.nextInt((b - a) + 1) + a;
           int third = random.nextInt((b - a) + 1) + a;
           System.out.println(first);
           System.out.println(second);
           System.out.println(third);
     // declaring int variable and sets its value by min function
of math class
           int min = Math.min(first, second);
     // checks if third number is smaller than the first&second
numbers, if it does its sets as his new value
           min = Math.min(min, third);
     // prints the minimal number that was generated in range
           System.out.println("The minimal generated number was: " +
min);
    }
}
```