Name: Yarin Raichman

HW01 - answers

AddTwo:

```
package HW01;
// class declaration
public class AddTwo {
    // main(string[]) - the entry point of a Java program.
    // args - args contains the supplied command-line
    // arguments as an array of String objects.
    public static void main(String[] args){
        // a,b - the first and the second user-inputs' values.
        // each converted from string to int.
        int a = Integer.parseInt(args[0]);
        int b = Integer.parseInt(args[1]);
        // printing the results exactly as the PDF states.
        System.out.println(a + " + " + b + " = " + (a + b));
    }
}
```

Coins:

```
package HW01;
// class declaration
public class Coins {
    // main(string[]) - the entry point of a Java program.
    // args - args contains the supplied command-line
    // arguments as an array of String objects.
    public static void main(String[] args){
        // quarters, cents - the first and the second user-inputs'
values.
        // each converted from string to int.
        // quarters - 25 cents.
        // cents - coins left after changing each 25 coins into
quarters.
        int quarters = Integer.parseInt(args[0]) / 25;
        int cents = Integer.parseInt(args[0]) % 25;
        // printing the results exactly as the PDF states.
        System.out.println("Use " + quarters + " quarters and " + cents + " cents");
    }
}
```

Linear Equation Solver:

```
package HW01;
// class declaration
public class LinearEq {
    // main(string[]) - the entry point of a Java program.
    // args - args contains the supplied command-line
    // arguments as an array of String objects.
    public static void main(String[] args){
        // a,b,c - the first, the second and the third user-inputs'
values.

        // each converted from string to double.
        double a = Double.parseDouble(args[0]);
        double b = Double.parseDouble(args[1]);
        double c = Double.parseDouble(args[2]);
        // reversing the linear equasion of the form a*x+b=c to
        // calculate the value of x.
        double x = (c - b) / a;
        // printing the results exactly as the PDF states.
        System.out.println(a + " * x + " + b + " = " + c);
        System.out.println("X = " + x);
    }
}
```

Triangle:

```
package HW01;
public class Triangle {
    public static void main(String[] args){
Math.max(Math.max(Integer.parseInt(args[0]),Integer.parseInt(args[1])
)),Integer.parseInt(args[2]));
        int min =
Math.min(Math.min(Integer.parseInt(args[0]),Integer.parseInt(args[1])
)),Integer.parseInt(args[2]));
        int mid = Integer.parseInt(args[0]) +
Integer.parseInt(args[1]) + Integer.parseInt(args[2]) - max - min;
        // checking if the 3 lines can form a triangle according to
        boolean isTriangle = min + mid > max;
        System.out.println(Integer.parseInt(args[0]) + ", " +
Integer.parseInt(args[1]) + ", " + Integer.parseInt(args[2]) + ": "
+ isTriangle);
    }
```

Gen3: