Homework 1 Code – Ohad Ben Amram:

1. Add two:

```
public class AddTwo {
        public static void main(String[] args) {
                int a = Integer.parseInt(args[0]);
                int b = Integer.parseInt(args[1]);
                System.out.println(a+" + "+b+" = "+(a+b));
        }
}
```

2. Coins:

```
public class Coins {
        public static void main(String[] args) {
                        int cents = Integer.parseInt(args[0]);
                int remainder = cents%25;
                int quarters = cents/25;
                System.out.println("Use "+quarters+" quarters and "+remainder+"
cents");
        }
}
```

3. LinearEq:

```
public class LinearEq {
        public static void main(String[] args){
                //aquires 3 doubles.
                double a = Double.parseDouble(args[0]);
                double b = Double.parseDouble(args[1]);
                double c = Double.parseDouble(args[2]);
                //calculates the equation
                double x = c - b;
                x = x/a;
                //prints the solution
                System.out.println(a + " * x + "+b+" = "+c);
                System.out.println("x = "+x);
        }
}
```

4. Triangle

```
public class Triangle {
	public static void main(String[] args) {
		//aquires 3 ints.
		int a = Integer.parseInt(args[0]);
		int b = Integer.parseInt(args[1]);
		int c = Integer.parseInt(args[2]);
		//checks wether the sum of any two variables is greater than the third
and assigns it to bool isTriangle
		boolean isTriangle = false;
		isTriangle	= ( a + b > c && a + c > b && b + c > a);
		//prints the numbers generated and wether it's a triangle or not
		System.out.println(a+", "+b+", "+c+": "+isTriangle);
	}
}
```

5. GenThree:

```
public class GenThree {
	public static void main(String[] args) {
		//gets two numbers from user
		int a = Integer.parseInt(args[0]);
		int b = Integer.parseInt(args[1]);
		//generates 3 random numbers in the range of a and b and prints them
		int random1 = (int)(Math.random() * (b - a) + a );
		System.out.println(random1);
		int random2 = (int)(Math.random() * (b - a) + a );
		System.out.println(random2);
		int random3 = (int)(Math.random() * (b - a) + a );
		System.out.println(random3);
		int min1 = Math.min(random1,random2);
		int min2 = Math.min(random1, random3);
		int min3 = Math.min (min1, min2);
		System.out.println("The minimal generated number was "+min3);
	}
}
```