

Home work 1:

1. AddTwo

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

2. Coins

```
public class Coins {  
    public static void main(String[] args) {  
        int coins= Integer.parseInt(args[0]);  
        int quarter= 25;  
        int cent= 1;  
        int how_many_quarters = coins/ quarter;  
        int rest = (coins % quarter); /* the rest of the division by quarters will  
                                     be the amount of cents we need*/  
        int how_many_cents = rest;  
        System.out.println("Use " + how_many_quarters + " quarters and " + (rest + " cents"));  
    }  
}
```

3. Linear Equation Solver

```
public class LinearEq {  
    public static void main(String[] args) {  
        double firstNum= Double.parseDouble(args[0]);  
        double secondNum= Double.parseDouble(args[1]);  
        double thirdNum= Double.parseDouble(args[2]);  
        double answer= (thirdNum - secondNum) / firstNum; //because of the formula 'ax + b = c'  
        System.out.println(firstNum + " * " + "x + " + secondNum + " = " + thirdNum );  
        System.out.println( "x = " + answer);  
    }  
}
```

4. Triangle

```
public class Triangle {  
    public static void main(String[] args) {  
        int firstNum= Integer.parseInt(args[0]);  
        int secondNum= Integer.parseInt(args[1]);  
        int thirdNum= Integer.parseInt(args[2]);  
        boolean answer= ((firstNum + secondNum) > thirdNum) &&  
                        ((secondNum + thirdNum) > firstNum) &&  
                        ((firstNum + thirdNum) > secondNum); /*checking if the sum of every two numbers is  
                                                                grater fron the third (from the formula).*/  
        System.out.println(firstNum + ", " + secondNum + ", " + thirdNum + ": " + answer );  
    }  
}
```

5. Gen3

```
public class GenThree {  
    public static void main(String[] args) {  
        int minNum= Integer.parseInt(args[1]);  
        int maxNum= Integer.parseInt(args[0]);  
        int firstNum= ((int)(Math.random() * (maxNum - minNum + 1) + minNum));  
        int secondNum= ((int)(Math.random() * (maxNum - minNum + 1) + minNum));  
        int thirdNum= ((int)(Math.random() * (maxNum - minNum + 1) + minNum));  
        System.out.println(firstNum);  
        System.out.println(secondNum);  
        System.out.println(thirdNum);  
        int checkingMin= Math.min(firstNum, secondNum); //taking the smallest number between the first two numbers.  
        int finalMin = Math.min(checkingMin, thirdNum); /*because checkingNum is the smallest between the first two the  
                                                         smallest between it and the third is the smallest from all three.*/  
        System.out.println("The minimal generated number was " + finalMin);  
    }  
}
```