HOMEWORK 1 COMPUTER SCIENCE

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AddTwo :

```
public class AddTwo {

        public static void main(String[] args) {

            int firstNumber = Integer.parseInt(args[0]); // first number
            int secondNumber = Integer.parseInt(args[1]); // second
number
            int thirdNumber = firstNumber + secondNumber; // the sum of
them
            System.out.println(firstNumber + " + " + secondNumber + " =
" + thirdNumber);
        }
        }
```

Coins :

```
public class Coins {
    public static void main(String[] args) {

        int a = Integer.parseInt(args[0]);
        int numberOfCent = a % 25; // we use the technique of modulo in
order to have the rest of the division
        int numberOfQuarter = a / 25; // we do a simple division to find
how many quarter we have
        System.out.println("We have" + " " + numberOfQuarter + " " +
"quarter and"+ " "+ numberOfCent + " " + "cent");

    }
}
```

LinearEq :

```
public class LinearEq {

    public static void main(String[] args) {
        double a = Double.parseDouble(args[0]); // we get a
        double b = Double.parseDouble(args[1]); // we get b
        double c = Double.parseDouble(args[2]); // we get c
        double res = (c - b)/a ; // we get x with a equation of first degree

        System.out.println( a +" * x" + " " + b + " = "+ c);
        System.out.println("x =" + " " + res);
    }

}
```

Triangle :

```
public class Triangle {
    public static void main(String[] args) {

        int a = Integer.parseInt(args[0]); // first side of the triangle
        int b = Integer.parseInt(args[1]); // second side of the triangle
        int c = Integer.parseInt(args[2]); // the remaining side

        if ( (a + b) > c) { // we check if the sum of the side a and b is
greater than the side c
            System.out.println(a + ", " + b + ", " + c + " : true"); //
when it's correct we get a triangle
        }
        else { // we check the other possibility, when the sum of a and
b are lower than c
            System.out.println(a + ", " + b + ", " + c + " : false"); //
we don't get a triangle
        }
    }
}
```

Gen3 :

```
import java.util.Random;

public class Gen3 {
    public static void main(String[] args) {
        // The range
        int firstNumber = Integer.parseInt(args[0]);
        int secondNumber = Integer.parseInt(args[1]);

        // We want the lower number to be the first so if it’s not the case
we change between them

        If ( firstNumber > secondNumber) {

           Int temp = firstNumber;

           firstNumber = secondNumber;

           secondNumber = temp;

        }
        // Generate three random integers
        int randomNumber1 = new Random().nextInt(secondNumber -
firstNumber) + firstNumber;
        int randomNumber2 = new Random().nextInt(secondNumber -
firstNumber) + firstNumber;
        int randomNumber3 = new Random().nextInt(secondNumber -
firstNumber) + firstNumber;

        // Print the generated numbers
        System.out.println("Number 1: " + randomNumber1);
        System.out.println("Number 2: " + randomNumber2);
        System.out.println("Number 3: " + randomNumber3);

        // Find and print the minimal number
        int minimalNumber = Math.min(Math.min(randomNumber1,
randomNumber2), randomNumber3);
        System.out.println("Minimal Number: " + minimalNumber);
    }
}
```