OOP 1

Assignment 2

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Dog.java:

```
public class Dog{

	//initialize size, name, and breed instance variables
	//size as integer, others as strings

	int size;
	String name;
	String breed;

	//Create Constructor method
	public Dog(){
		//Size initializes to 0, Strings to unassigned
		size = 0;
		name = "Unassigned";
		breed = "Unassigned";
	}

	//Create bark method
	public void bark(){
		//Print woof woof
		System.out.println("Woof Woof");
	}
}
```

DogTest.java

```
public class DogTest{

	//Main method
	public static void main(String[] args){
		//Create dog object called dog
		Dog dog = new Dog();

		//Set size to 2, Call it Coco, set breed to Husky
		dog.size = 2;
		dog.name = "Coco";
		dog.breed = "Husky";

		//Print out the variables
		System.out.println("Dog Size: " + dog.size);
		System.out.println("Dog name: " + dog.name);
		System.out.println("Dog breed: " + dog.breed);
		//Run bark method
```

```
            dog.bark();
      }
}
```

```
D:\Users\marti\Files\Programming\Java\OOP1\Assignment2>java DogTest
Dog Size: 2
Dog name: Coco
Dog breed: Husky
Woof Woof
```

CoffeeOrder.java

//Import scanner for taking inputs

```
import java.util.Scanner;
public class CoffeeOrder{
      //Main method
      public static  void main(String[] args){
            //create scanner object
            Scanner scan = new Scanner(System.in);
            //print table of offers, \t for formatting
            System.out.println("----------------------------");
            System.out.println(">=  25 Bags \t \t  5%\n>=  50 Bags \t
\t 10%\n>= 100 Bags \t \t 15%\n>= 150 Bags \t \t 20%\n>= 200 Bags \t
\t 25%\n>= 300 Bags \t \t 30%");
            //print question of order quantity
            System.out.println("\nHow many bags would you like to
order? ");
            //create bags integer, taken as user input
            //create coffeecost variable, which is price before offer
            int bags = scan.nextInt();
            double CoffeeCost = 5.5*bags;
            //initialize discount string at 0, discount number at 0
            String discount = "0%";
            double discountnum = 0;
            //Print initial cost
            System.out.println("Number of bags ordered: " + bags + "
EUR"+CoffeeCost);
            //if loops to check which discount, if any, is applicable
            if(bags >= 300){
                  //set string to the % value, num to fraction of cost
                  discount = "30%";
                  discountnum = .3*CoffeeCost;
            }else if(bags >= 200){
                  discount = "25%";
                  discountnum = .25*CoffeeCost;
            }else if(bags >= 150){
                  discount = "20%";
                  discountnum = .2*CoffeeCost;
            }else if(bags >= 100){
                  discount = "15%";
                  discountnum = .15*CoffeeCost;
            }else if(bags >= 50){
                  discount = "10%";
                  discountnum = .1*CoffeeCost;
            }else if(bags >= 25){
```

```
                discount = "5%";
                discountnum = .05*CoffeeCost;
            }
            //calculate cost after discount
            CoffeeCost = CoffeeCost - discountnum;
            //print discount value
            System.out.println("Discount: "+discount+" -
EUR"+discountnum);

            //print final cost
            System.out.println("Total Cost: EUR"+CoffeeCost);

      }
}
```

```
D:\Users\marti\Files\Programming\Java\OOP1\Assignment2>java CoffeeOrder
----------------------------
>=  25 Bags               5%
>=  50 Bags              10%
>= 100 Bags              15%
>= 150 Bags              20%
>= 200 Bags              25%
>= 300 Bags              30%

How many bags would you like to order?
55
Number of bags ordered: 55 EUR302.5
Discount: 10% -EUR30.25
Total Cost: EUR272.25
```