Código Fuente

```java
package Drinks;
/**
*@author Victor Lavalle
*/
public abstract class Drink {

   private double price;

    public double getPrice() {return price;}
    public void setPrice(double price) {this.price = price;
  }
}
```

```java
package Drinks;

public class DarkToast extends Drink{
  double  price =(Math.random() * 50) + 1;
    public DarkToast() {
        setPrice(price);
        System.out.println("»DarkToast");
  }
}
```

```java
package Drinks;

public class Decaf extends Drink{
  double  price =(Math.random() * 50) + 1;
    public Decaf() {
        setPrice(price);
        System.out.println("»Decaf");
  }
}
```

```java
package Drinks;

public class Espresso extends Drink{
 double  price =(Math.random() * 50) + 1;
    public Espresso() {
        setPrice(price);
        System.out.println("»Espresso");
  }
}
```

```java
package Drinks;

public class HouseBlend extends Drink{
  double  price =(Math.random() * 50) + 1;
    public HouseBlend() {
        setPrice(price);
        System.out.println("»HouseBlend");
  }

}
```

```java
package Decorations;

import Drinks.Drink;

/**
 * @author Victor Lavalle
 */
public abstract class DrinkDecorator extends Drink {

    private Drink drink;

        public Drink getDrink() {return drink;}

        public void addDrink(Drink drink) {
            this.drink = drink;
            setPrice(drink.getPrice() + getPrice());
  }

}
```

```java
package Decorations;
/**
*@author Victor Lavalle
*/
public class ChocolateChips extends DrinkDecorator {

   double  price =(Math.random() * 20) + 1;
    public ChocolateChips() {
        setPrice(price);
  }

}
```

```java
package Decorations;
/**
 * @author Victor Lavalle
 */
public class WhippedCream extends DrinkDecorator{

    public WhippedCream() {
       double  price =(Math.random() * 20) + 1;
        setPrice(price);
  }

}

```

```java
package Launcher;

import Decorations.*;
import Drinks.*;
import java.text.DecimalFormat;
/**
*@author Victor Lavalle
*/
public class Client {

    public static void main(String[] args) {

         double  order =(Math.random() * 10) + 1;
         DecimalFormat formatOrder = new DecimalFormat("#");
         System.out.println("|Order # "+formatOrder.format(order)+"|");

        DecimalFormat formatPrice = new DecimalFormat("#.00");
        DrinkDecorator cream = new WhippedCream();
        DrinkDecorator chips = new ChocolateChips();
        //_______________________________________________________

        Drink espresso = new Espresso();
        cream.addDrink(espresso);
        chips.addDrink(cream);
        System.out.println( "$"+formatPrice.format(chips.getPrice())+"\n");

        //_______________________________________________________

        Drink decaf = new Decaf();
        cream.addDrink(decaf);
        System.out.println( "$"+formatPrice.format(cream.getPrice())+"\n");

        //_______________________________________________________

        Drink houseBlend = new HouseBlend();
        System.out.println( "$"+formatPrice.format(houseBlend.getPrice()));

        //______________________________________________________

        System.out.println("\nThanks For Your Visit! :)");
  }
}
```

Diagrama de Clases

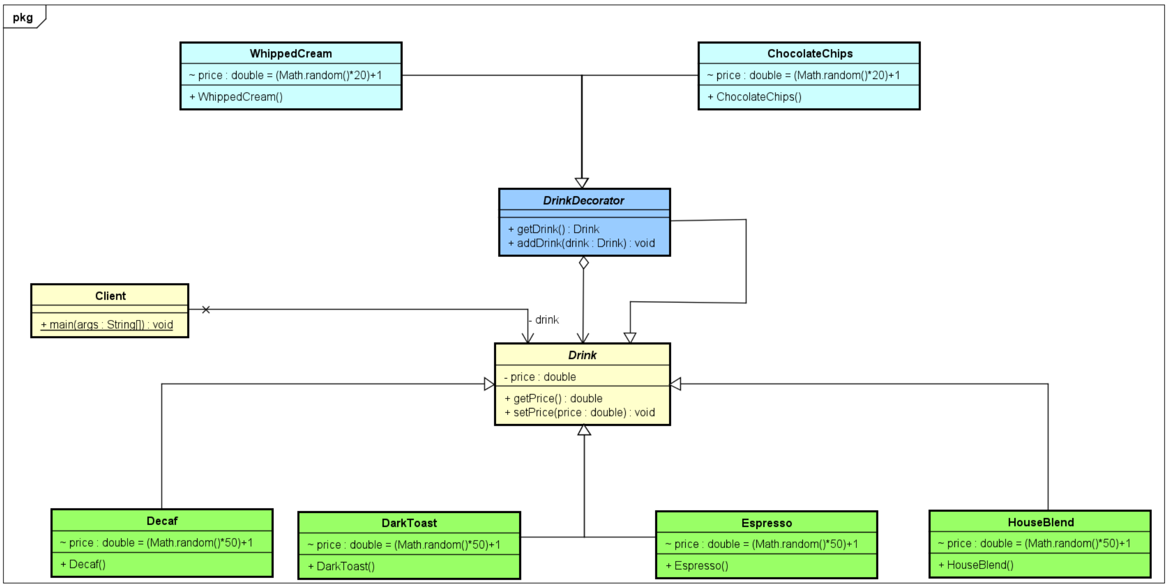
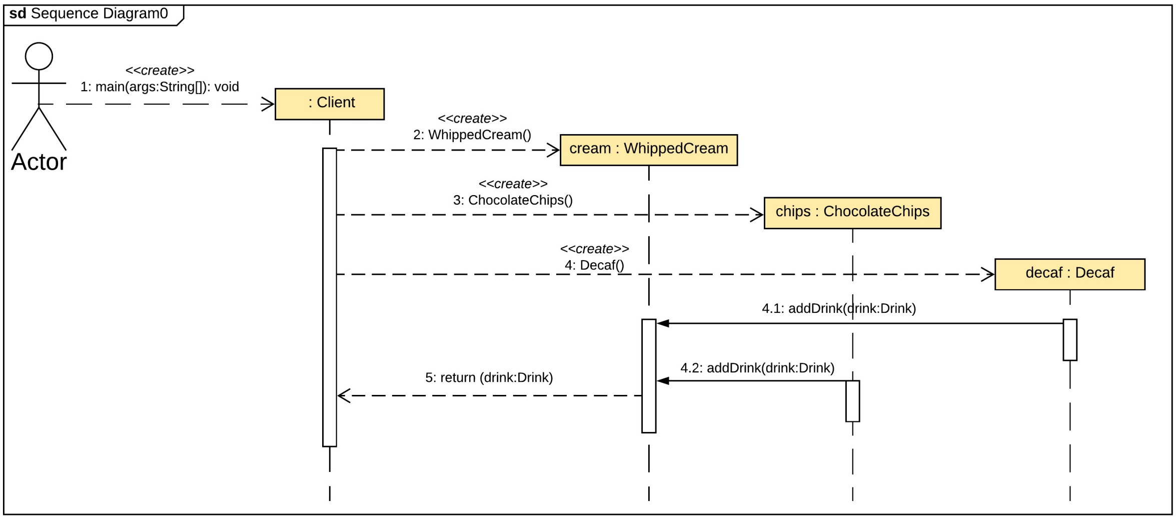
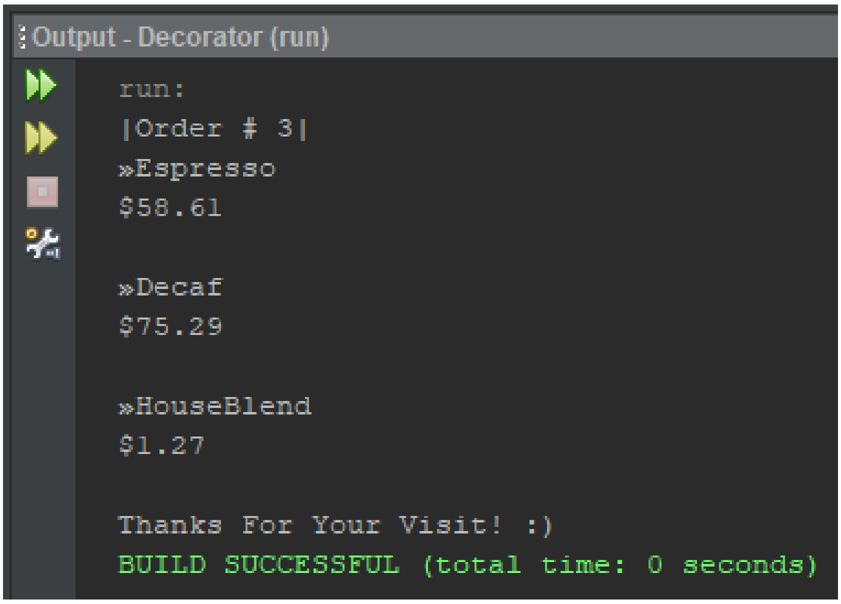

pkg
WhippedCream
~ price : double = (Math.random()*20)+1
+ WhippedCream()
ChocolateChips
~ price : double = (Math.random()*20)+1
+ ChocolateChips()
DrinkDecorator
+ getDrink() : Drink
+ addDrink(drink : Drink) : void
Client
+ main(args : String[]) : void
- drink
Drink
- price : double
+ getPrice() : double
+ setPrice(price : double) : void
Decaf
~ price : double = (Math.random()*50)+1
+ Decaf()
DarkToast
~ price : double = (Math.random()*50)+1
+ DarkToast()
Espresso
~ price : double = (Math.random()*50)+1
+ Espresso()
HouseBlend
~ price : double = (Math.random()*50)+1
+ HouseBlend()

Diagrama de Secuencia



Ejecución



```
run:
|Order # 3|
»Espresso
$58.61

»Decaf
$75.29

»HouseBlend
$1.27

Thanks For Your Visit! :)
BUILD SUCCESSFUL (total time: 0 seconds)
```