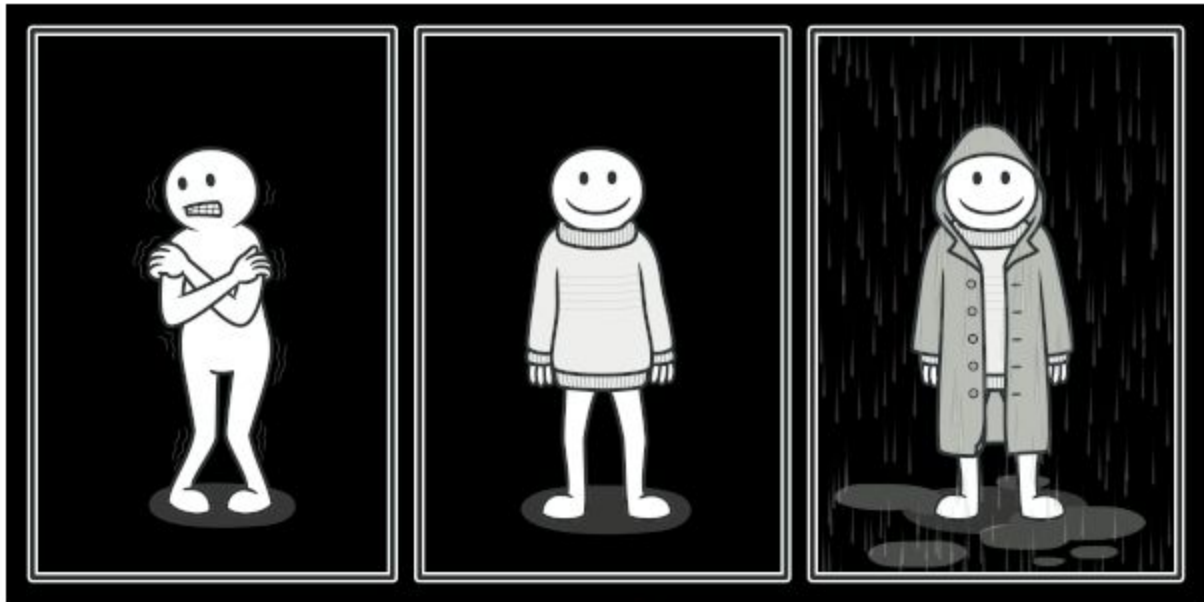

Decorator Design Pattern



Here Clothes are Decorators

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Application



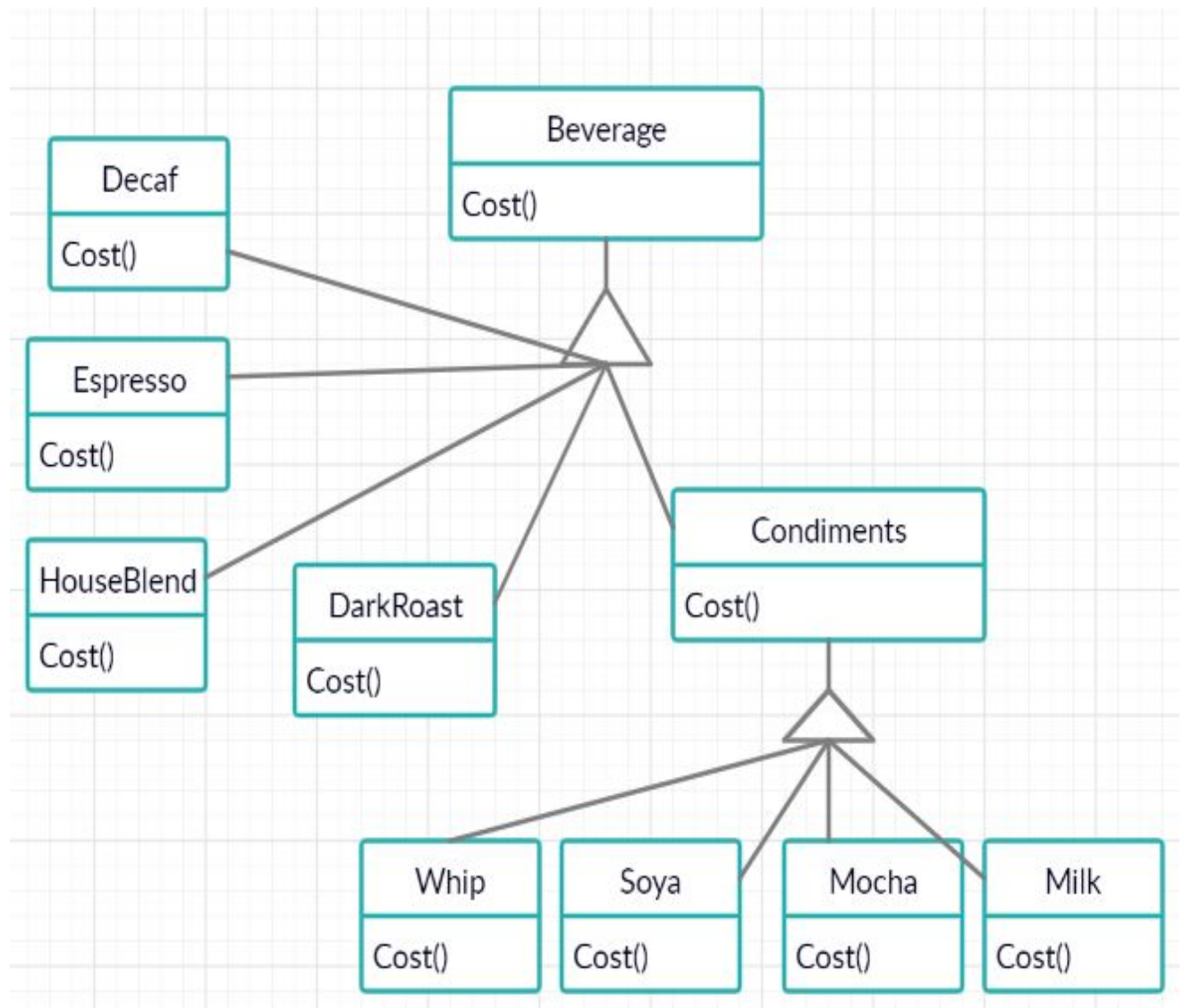
Cafe Coffee Day

- Here I would be making a coffee ordering system for Cafe Coffee Day.
- Because Caffe Coffee Day has grown so quickly, they are scrambling to update their ordering system to match their beverage offerings....
- In addition to your coffee you can also ask for several condiments like steamed milk, soy, mocha etc. Starbuzz charges a bit for each of these so they really need to get them built into the order system.
- So the Condiments will be Implemented using Decorator Design Pattern.

Objectives

- Here I am going to create a Beverage ordering system where -
- Concrete Component is Beverage names which are -
 - HouseBlend
 - Espresso
 - Decaf
 - DarkRoast
- Concrete Decorator Components are -
 - Milk
 - Soy
 - Mocha
 - Whip

Class Diagram -



Implementation and Code

- I have done the implementation in the Python 3.6 compiler environment in Anaconda.
- The code will work normally in any Python 3.6 Compiler.
- You can find the Code in this drive Ink -
 - <https://drive.google.com/open?id=18j2ScuhBA-mL3x1jvgkvNIFvCkYUZN-E>
 - The Explanation in the code is given as comments
- Follow the following steps for implementation -
 - Run the script
 - Select the Beverage type by writing its name, i.e for example you want Espresso, then you have to write Espresso in the command line.
 - Select the Condiment type by writing its name, i.e for example you want Mocha, then you have to write Mocha in the command line.
 - The final cost will be displayed with your preferred Coffee name.

Screenshot

- Here, wherever Input is shown in the screen shot, it corresponds to the user Input.

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```
(base) C:\Users\visha\Desktop>python Decorator.py
Which type of Coffee you want?
Available options: HouseBlend DarkRoast Decaf Espresso
Espresso      ← Input
Which type of Condiments do you want?
Available options: Milk Mocha Whip Soy
Whip          ← Input
Espresso with Whip: $29
```