Lab 7

Start Assignment

- Due May 21 by 11:59pm
- Points 100
- Submitting a text entry box or a file upload
- Available until May 26 at 11:59pm

Please complete Lab 7 by the assigned due date .

Attachments

Lab07.pdf (https://extcanvas.ucsd.edu/courses/23830/files/15023309?wrap=1) ⬇
(https://extcanvas.ucsd.edu/courses/23830/files/15023309/download?download_frd=1)

(https://extcanvas.ucsd.edu/courses/23830/files/15023309/download)

Notes:

- Make sure when you need to access the price of a given Food item you use that specific object's price() method. For instance, if a cheeseburger costs 6.99, the only place 6.99 should show up in the code is Cheeseburger's price() method.
  - Example of what not to do:

```
def __str__(self):
    return f"{__class__.__name__}: 11.99"  # NO!

def price(self):
    return 11.99
```

- Because of inheritance, you can define __str__ only in Food and the child classes will get that functionality "for free", and it would still show the appropriate message. I'll leave this up to you, but here's a hint:
  type(self).__name__
- The _orders and _total_sales variable belong to the singleton ***instance***, not the class. Partial credit will not be given for this mistake.

(https://extcanvas.ucsd.edu/courses/23830/files/15023309/download)

Rubric - Lab 7

Criteria	Ratings	Pts
Part I: __new__(): ensure 1 instance Singleton pattern		10 pts
Part I: order_food() wrapper Singleton pattern		10 pts
Part I: Extra Credit: _orders and _total_sales 3 pts.		0 pts
Part I: Extra Credit: __str__() 2 pts.		0 pts
Part II: Food class: __init__()		5 pts
Part II: Food class: price()		5 pts
Part II: Food class: prepare()		5 pts
Part II: Food class: order_food()		10 pts
Part III: Food Derivative 1: __str__()		5 pts
Part III: Food Derivative 1: price()		5 pts
Part III: Food Derivative 1: prepare()		10 pts
Part III: Food Derivative 2: __str__()		5 pts
Part III: Food Derivative 2: price()		5 pts
Part III: Food Derivative 2: prepare()		10 pts
Part III: Testing and output		15 pts
Part III: Extra Credit: 3rd Food derivative 5 pts.		0 pts
		Total Points: 100