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DAY 11 TASK.py - C:/Users/krsu/OneDrive/Desktop/internship/DAY 11 TASK.py (3.10.0)
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#Task 1
import os

class CoffeeShopBill:
    def __init__(self, customer_name):
        self.customer_name = customer_name
        self.filename = f"{customer_name}_bill.txt"

    def create_bill(self):
        with open(self.filename, "w") as file:
            file.write("Coffee Shop Bill\n")
            file.write(f"Customer: {self.customer_name}\n")
        print("Bill Created Successfully")

    def add_item(self, item_name, quantity, price):
        total_price = quantity * price
        with open(self.filename, "a") as file:
            file.write(f"{item_name} - {quantity} cups - {total_price}\n")
        print("Item Added Successfully")

    def show_bill(self):
        print("-----")
        with open(self.filename, "r") as file:
            print(file.read())
        print("-----")

    def cancel_order(self):
        if os.path.exists(self.filename):
            os.remove(self.filename)
            print("Order Cancelled")
            print("Bill Deleted Successfully")
        else:
            print("No Bill Found")

name = input("Enter Customer Name: ")

bill = CoffeeShopBill(name)
bill.create_bill()

bill.add_item("Latte", 2, 100)
bill.add_item("Sandwich", 1, 80)

bill.show_bill()
bill.cancel_order()
```

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Enter Customer Name: Subrahmany
Bill Created Successfully
Item Added Successfully
Item Added Successfully
-----
Coffee Shop Bill
Customer: Subrahmany
Latte - 2 cups - 200
Sandwich - 1 cups - 80
-----
Order Cancelled
Bill Deleted Successfully
```

#Task 2

```
#Create a text file and write a message into it
file = open("sample.txt", "w")
file.write("Hello, I'm Subramanya.")
file.close()

print("File created and message written successfully.")

#Open a file in read mode and display its contents
file = open("sample.txt", "r")
content = file.read()
print(content)
file.close()

#Append data to an existing file
file = open("sample.txt", "a")
file.write("\nThis line is appended to the file.")
file.close()
|
print("Data appended successfully.")

#Read a file and display each line
file = open("sample.txt", "r")

for line in file:
    print(line.strip())

file.close()
```

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>> ===== RESTART: C:/Users/kbsub/OneDrive/Desktop/intro.py =====
File created and message written successfully.
Hello, I'm Subramanya.
Data appended successfully.
Hello, I'm Subramanya.
This line is appended to the file.
>>
```

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#Task 3: Method Overriding|

```
class Shape:  
    def area(self):  
        print("Area of shape")  
  
class Rectangle(Shape):  
    def area(self):  
        length = 10  
        breadth = 5  
        print("Area of Rectangle:", length * breadth)  
  
rect = Rectangle()  
rect.area()
```

#Task 4: Movie Info

```
class Movie:  
    def __init__(self, title, rating):  
        self.title = title  
        self.rating = rating  
  
    def check_rating(self):  
        if self.rating >= 8:  
            print(self.title, "is a Hit movie")  
        else:  
            print(self.title, "is an Average movie")  
movie = Movie("Inception", 8.5)  
movie.check_rating()
```

#Task 5: Book Discount

```
class BookStore:  
    def __init__(self, book_name, price):  
        self.book_name = book_name  
        self.price = price  
  
    def discount(self):  
        if self.price > 500:  
            discount_price = self.price * 0.9  
            print("Price after 10% discount:", discount_price)  
        else:  
            print("No discount. Price:", self.price)
```

```
book = BookStore("Python Book", 600)  
book.discount()
```

#Task 6: Password Protection

```
class UserAccount:  
    def __init__(self):
```

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*DAY 11 TASK.py - C:/Users/kbsub/OneDrive/Desktop/internship/DAY 11 TASK.py (3.10.0)*
File Edit Format Run Options Window Help
class UserAccount:
    def __init__(self):
        self.__password = ""

    def set_password(self, password):
        if len(password) > 6:
            self.__password = password
            print("Password set successfully")
        else:
            print("Password must be more than 6 characters")

    def validate_password(self):
        if len(self.__password) > 6:
            print("Password is valid")
        else:
            print("Password is invalid")

user = UserAccount()
user.set_password("Subrahmany123")
user.validate_password()

#Task 7: Temperature Control
class Thermostat:
    def __init__(self):
        self.__temperature = 0

    def set_temperature(self, temp):
        if 16 <= temp <= 30:
            self.__temperature = temp
            print("Temperature set to", temp)
        else:
            print("Temperature must be between 16 and 30")

    def get_temperature(self):
        return self.__temperature

thermo = Thermostat()
thermo.set_temperature(25)
print("Current Temperature:", thermo.get_temperature())

#Task 8: Electronics Store
class ElectronicItem:
    def __init__(self, brand):
        self.brand = brand

class WashingMachine(ElectronicItem):
    def __init__(self, brand, capacity):
```

DAY 11 TASK.py - C:/Users/kbsub/OneDrive/Desktop/internship/DAY 11 TASK.py (3.10.0)

```
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        self.__temperature = temp
        print("Temperature set to", temp)
    else:
        print("Temperature must be between 16 and 30")

    def get_temperature(self):
        return self.__temperature

thermo = Thermostat()
thermo.set_temperature(25)
print("Current Temperature:", thermo.get_temperature())

#Task 8: Electronics Store
class ElectronicItem:
    def __init__(self, brand):
        self.brand = brand

class WashingMachine(ElectronicItem):
    def __init__(self, brand, capacity):
        super().__init__(brand)
        self.capacity = capacity

    def display(self):
        print("Brand:", self.brand)
        print("Capacity:", self.capacity, "kg")

wm = WashingMachine("LG", 7)
wm.display()

#Task 9: Media Player
class AudioPlayer:
    def play_audio(self):
        print("Playing audio")

class VideoPlayer:
    def play_video(self):
        print("Playing video")

class SmartPlayer(AudioPlayer, VideoPlayer):
    pass

player = SmartPlayer()
player.play_audio()
player.play_video()
```

```
===== RESTART: C:/Users/kbsub/OneDrive/Desktop/
Area of Rectangle: 50
Inception is a Hit movie
Price after 10% discount: 540.0
Password set successfully
Password is valid
Temperature set to 25
Current Temperature: 25
Brand: LG
Capacity: 7 kg
Playing audio
Playing video
```