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Python on AWS
Files I/O

Homework 1 - copytor.py:

Write a function called **copy**, which takes in a ***file name*** and a ***new file name*** and copies the contents of the first file into the second file.

(Note: we've provided you with the first chapter of *Alice's Adventures in Wonderland* to give you some sample text to work with. This is also the text used in the tests.

copy('story.txt', 'story_copy.txt') # None
expect the contents of story.txt and story_copy.txt to be the same

Create story.txt file with the following content

copytor.py | story.txt

Python_Files_IO > story.txt

```
1  This content originates from the file called story.txt which is the source file
```

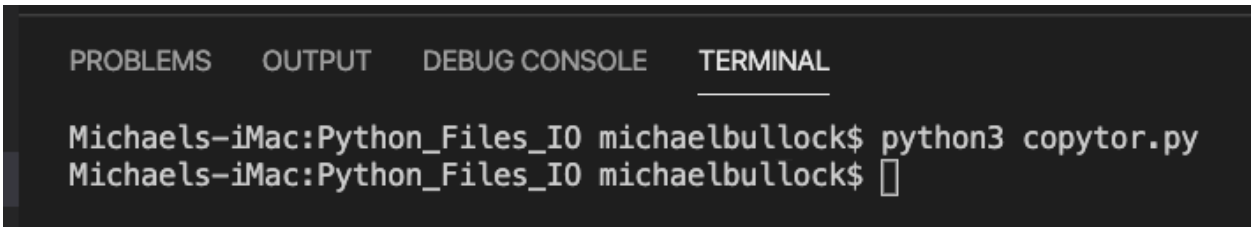
Create copytor.py file

copytor.py | story.txt

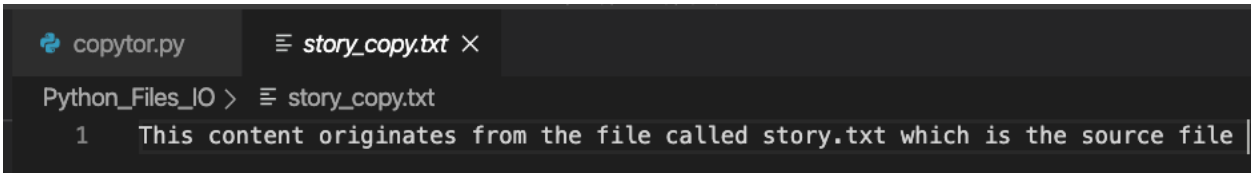
Python_Files_IO > copytor.py

```
1   # Define copy function
2   def copy(source_file, destination_file):
3
4       # Open the source file in read mode and destination file in write mode
5       with open('story.txt', 'r') as src:
6           content = src.read()  # Read the content of the source file
7
8       # Open the destination file in write mode and write the content from story.txt
9       # to the destination file called story_copy.txt
10      with open('story_copy.txt', 'w') as dest:
11          dest.write(content)  # Write the content to the destination file
12
13  # Call Function
14  copy('story.txt', 'story_copy.txt')
```

Run copytor.py program



The program creates story_copy.txt file with the content from copytor.py



Homework2 – sales.py:

Write a code using functions that will add items in your grocery cart and return total in a receipt text.

Order = { '**tomato**': 30, '**thyme**': 4.50, '**garlic**': 7.5, '**rice**': 10, '**onions**': 4, '**fish**': 9.99 }

Create sales.py

sales.py

Python_Files_IO > sales.py

```python
# Define the order dictionary
Order = {
    'tomato': 30,
    'thyme': 4.50,
    'garlic': 7.5,
    'rice': 10,
    'onions': 4,
    'fish': 9.99
}

# Function to add items to the cart and write to a receipt
def add_items_to_cart(order):
    cart = []
    total = 0.0

    # Add items to the cart
    for item, price in order.items():
        cart.append((item, price))
        total += price

    # Write the receipt to a file
    with open('grocery_receipt.txt', 'w') as receipt_file:
        receipt_file.write("Grocery Cart Receipt\n")
        receipt_file.write("------------------------------\n")
        for item, price in cart:
            receipt_file.write(f"{item}: ${price:.2f}\n")
        receipt_file.write("------------------------------\n")
        receipt_file.write(f"Total: ${total:.2f}\n")

# Example use
add_items_to_cart(Order)
print("Receipt generated: 'grocery_receipt.txt'")
```

Run sales.py program which creates grocery_receipt.txt

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

Michaels-iMac:Python_Files_IO michaelbullock$ python3 sales.py
Receipt generated: 'grocery_receipt.txt'
Michaels-iMac:Python_Files_IO michaelbullock$
```

grocery_receipt.txt

grocery_receipt.txt ×

Python_Files_IO > grocery_receipt.txt

```
1   Grocery Cart Receipt
2   ------------------------------
3   tomato: $30.00
4   thyme: $4.50
5   garlic: $7.50
6   rice: $10.00
7   onions: $4.00
8   fish: $9.99
9   ------------------------------
10  Total: $65.99
11
```