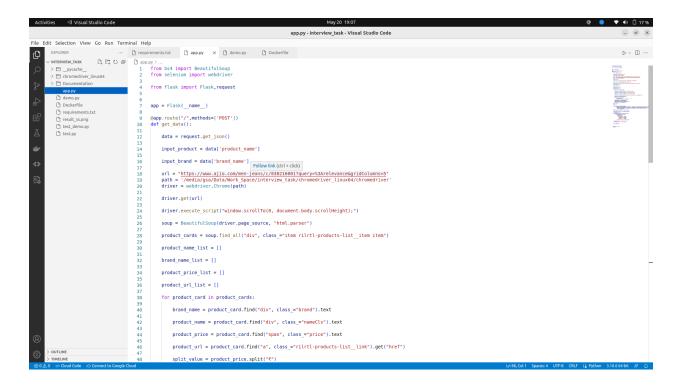
```
demo.py - interview_task - Visual Studio Code
                                                                                            ··· 🕒 requirements.txt 🖺 app.py 📑 demo.py × 🖺 Dockerfile
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ▷ ~ □ …
                                                                                                                 | demopy>...
| import requests
| from bs4 import BeautifulSoup
| import ntk
| from sklearn.eature extraction.text import TfidfVectorizer
| from sklearn.eatrics.pairwise import cosine_similarity
| from fastapi import FastAPI
| import pandss as pd
p chromedriver_linux64
Documentation

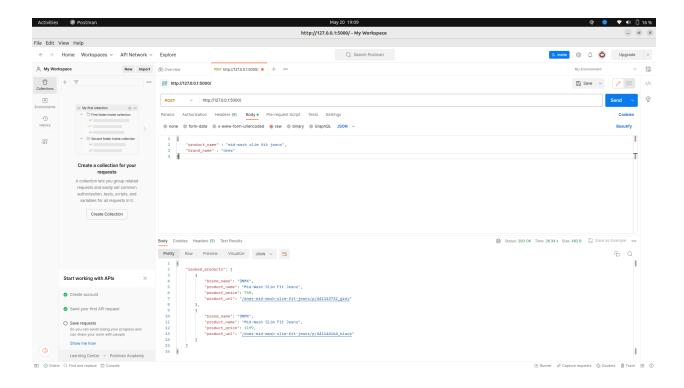
chapp.py

c
                                                                                                                                          url = "https://www.myntra.com/women-clothing"
response = requests.get(url)
print("RESPONSE", response)
soup = BeautifulSoup(response.content, "html.parser")
                                                                                                                                         product_cards = soup.find_all("div", class_="product-iten")
print("$$$$$, product_cards)
for product_card in product_cards:
    product_title = product_card.find("b2", class_="product-name").text
    product_description = product_card.find("div", class_="product-description").text
                                                                                                                                                      with open("clothing_similarity_data.csv", "a") as f:
    f.write(",".join([str(k) for k in product_features.keys()]) + "\n")
    f.write(",".join([str(v) for v in product_features.values()]) + "\n")
                                                                                                                                         data = pd.read csv("clothing similarity data.csv")
                                                                                                                                           vectorizer = TfidfVectorizer()
                                                                                                                                           X = vectorizer.fit transform(data["product description"])
                                                                                                                                          def get_similar_products(product_title, n=5):
   index = data[data["product_title"] == product_title].index[0]
                                                                                                                                                         similarities = cosine_similarities[index, :]
                                                                                                                                                         similarities.sort(reverse=True)
                                                                                                                                                         top n indices = similarities.argsort()[:n]
                                                                                                                                                         top_n_products = data.iloc[top_n_indices]["product_title"].tolist()
                                                                                                                                                         return top_n_products
```

I have tried web scraping using NLP and TF-IDF, Word2Vec, GloVe for **Clothing Similarity** And I didn't get solution. Let me check above SS. and I got solution another option used **selenium** library with NLP and APIs. let me check below SS.



I create rest api using flask with product name and brand name. And I tested this api on postman. I gave input product name and brand name and get output top-N most similar items.



And last deploy with docker file. I have issue for billing with credit card. So please i request you if you have already billed on GCP. you can share credentials detail . i can work this.

No worry, I have worked with deploy with docker image. It is worked for cloud run with docker container image.