SR UNIVERSITY
AI ASSISED CODING

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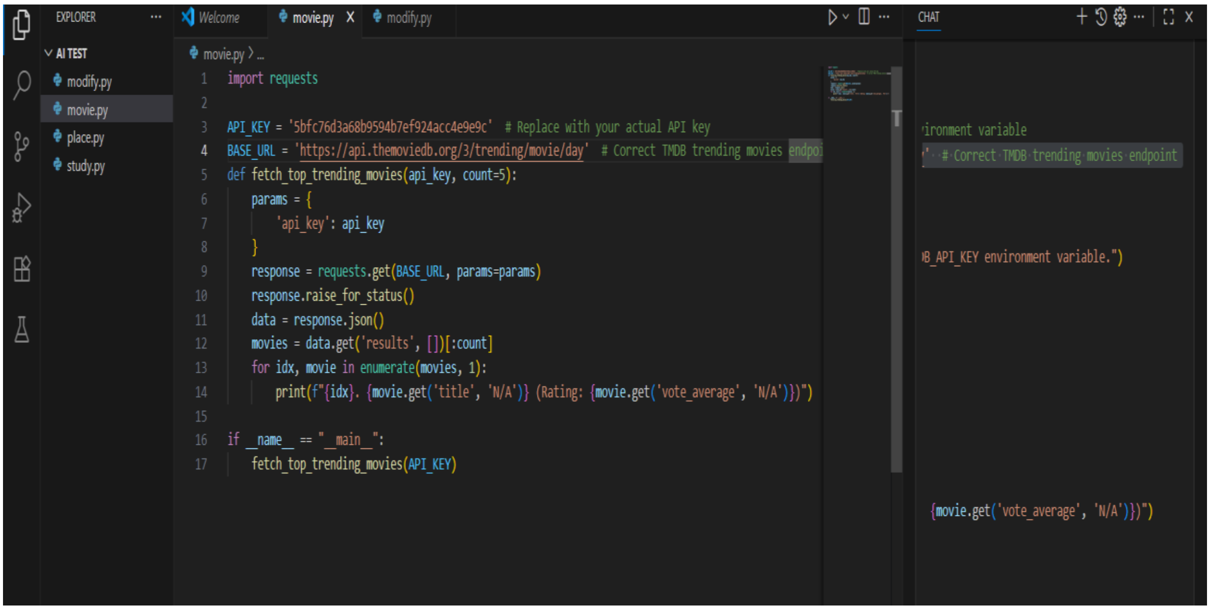
Q1. [5M] – Using APIs Safely

Task 1:

Write a Python script that fetches the top 5 trending movies from a movie database API. Hardcode the API key directly inside the code

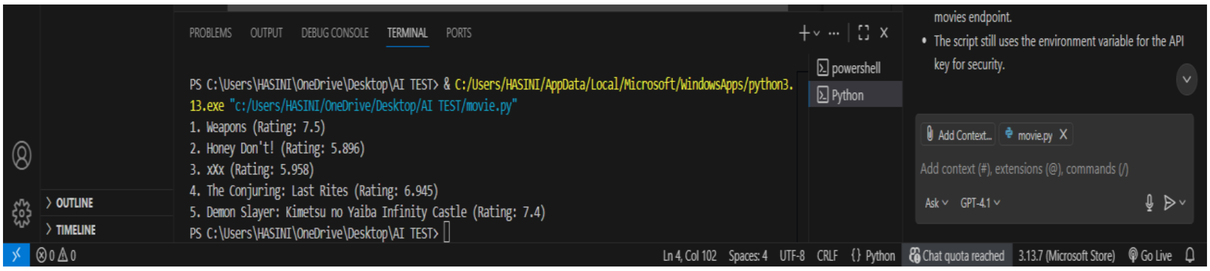
CODE:



EXPLORER
AI TEST
modify.py
movie.py
place.py
study.py
Welcome
movie.py
modify.py
CHAT
ironment variable
' # Correct TMDB trending movies endpoint
B_API_KEY environment variable.")
{movie.get('vote_average', 'N/A')})")

```python
import requests

API_KEY = '5bfc76d3a68b9594b7ef924acc4e9e9c'  # Replace with your actual API key
BASE_URL = 'https://api.themoviedb.org/3/trending/movie/day'  # Correct TMDB trending movies endpoi
def fetch_top_trending_movies(api_key, count=5):
    params = {
        'api_key': api_key
    }
    response = requests.get(BASE_URL, params=params)
    response.raise_for_status()
    data = response.json()
    movies = data.get('results', [])[:count]
    for idx, movie in enumerate(movies, 1):
        print(f"{idx}. {movie.get('title', 'N/A')} (Rating: {movie.get('vote_average', 'N/A')})")

if __name__ == "__main__":
    fetch_top_trending_movies(API_KEY)
```

OUTPUT:



```
PS C:\Users\HASINI\OneDrive\Desktop\AI TEST> & C:/Users/HASINI/AppData/Local/Microsoft/WindowsApps/python3.
13.exe "c:/Users/HASINI/OneDrive/Desktop/AI TEST/movie.py"
1. Weapons (Rating: 7.5)
2. Honey Don't! (Rating: 5.896)
3. xXx (Rating: 5.958)
4. The Conjuring: Last Rites (Rating: 6.945)
5. Demon Slayer: Kimetsu no Yaiba Infinity Castle (Rating: 7.4)
PS C:\Users\HASINI\OneDrive\Desktop\AI TEST> 
```

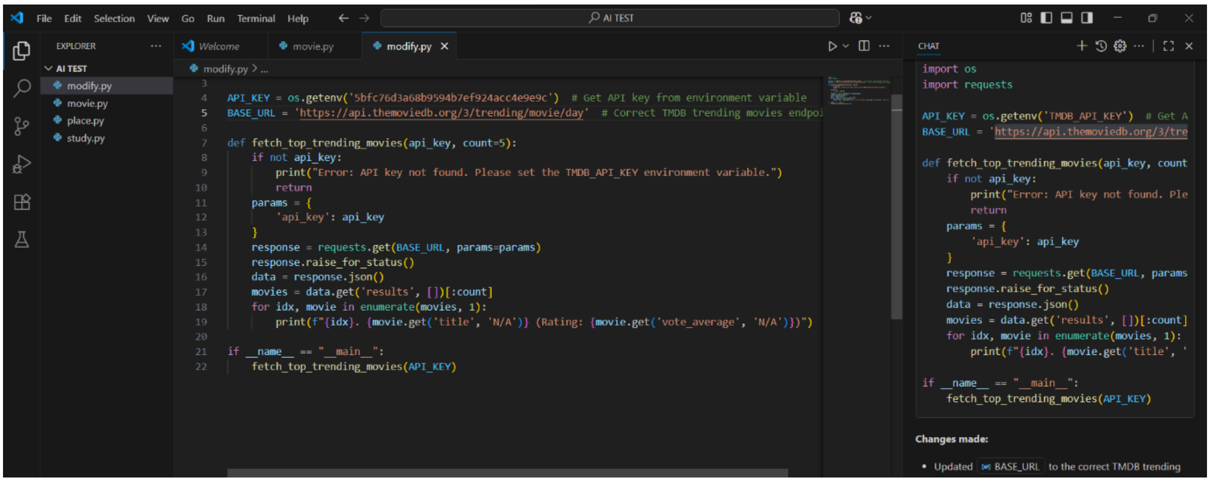
movies endpoint.

- The script still uses the environment variable for the API key for security.

Task 2:

Modify the script so that the API key is retrieved from an environment variable instead of being
hardcoded. Briefly explain why this prevents accidental sharing of secrets (e.g., on GitHub)

CODE:



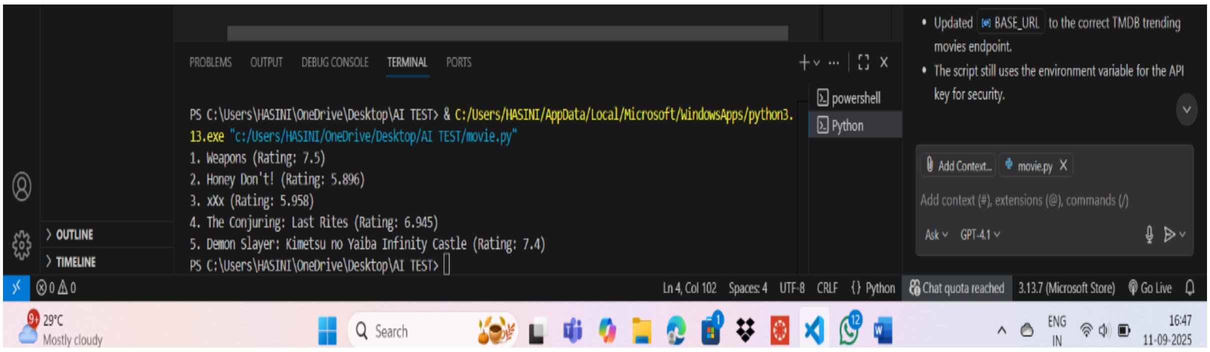
```python
API_KEY = os.getenv('5bfc76d3a68b9594b7ef924acc4e9e9c')  # Get API key from environment variable
BASE_URL = 'https://api.themoviedb.org/3/trending/movie/day'  # Correct TMDB trending movies endpoi

def fetch_top_trending_movies(api_key, count=5):
    if not api_key:
        print("Error: API key not found. Please set the TMDB_API_KEY environment variable.")
        return
    params = {
        'api_key': api_key
    }
    response = requests.get(BASE_URL, params=params)
    response.raise_for_status()
    data = response.json()
    movies = data.get('results', [])[:count]
    for idx, movie in enumerate(movies, 1):
        print(f"{idx}. {movie.get('title', 'N/A')} (Rating: {movie.get('vote_average', 'N/A')})")

if __name__ == "__main__":
    fetch_top_trending_movies(API_KEY)
```

```python
import os
import requests

API_KEY = os.getenv('TMDB_API_KEY')  # Get A
BASE_URL = 'https://api.themoviedb.org/3/tre

def fetch_top_trending_movies(api_key, count
    if not api_key:
        print("Error: API key not found. Ple
        return
    params = {
        'api_key': api_key
    }
    response = requests.get(BASE_URL, params
    response.raise_for_status()
    data = response.json()
    movies = data.get('results', [])[:count]
    for idx, movie in enumerate(movies, 1):
        print(f"{idx}. {movie.get('title', '

if __name__ == "__main__":
    fetch_top_trending_movies(API_KEY)
```

Changes made:

- Updated BASE_URL to the correct TMDB trending

Output:



- Updated BASE_URL to the correct TMDB trending movies endpoint.
- The script still uses the environment variable for the API key for security.

```
PS C:\Users\HASINI\OneDrive\Desktop\AI TEST> & C:/Users/HASINI/AppData/Local/Microsoft/WindowsApps/python3.
13.exe "c:/Users/HASINI/OneDrive/Desktop/AI TEST/movie.py"
1. Weapons (Rating: 7.5)
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4. The Conjuring: Last Rites (Rating: 6.945)
5. Demon Slayer: Kimetsu no Yaiba Infinity Castle (Rating: 7.4)
PS C:\Users\HASINI\OneDrive\Desktop\AI TEST> 
```

Q2. [5M] – Writing Safe Prompts

Task 1:

Create a prompt that asks AI to give general study tips for preparing for competitive exams, along with a
disclaimer that results may vary and students should seek proper guidance from mentors

PROMPT:

Can you provide general study tips for students preparing for competitive exams? Please include strategies for time management, revision techniques and disclaimer stating that results may vary depending on individual circumstances, and students should consult qualified mentors or educators for personalized guidance."

Task 2:
Write a prompt that generates a 1-day sightseeing plan for Delhi focusing only on historical monuments
and keeping it suitable for students on a budget.

PROMPT:

Can you create a 1-day sightseeing itinerary for Delhi that focuses exclusively on historical monuments? The plan should be suitable for students traveling on a budget, including free or low-cost entry sites, affordable transportation options, and suggestions for economical meals nearby."