LAB TEST-1

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TASK-1:

PROMPT:

CODE GENERATED:

code-1:

```python
# Fetch the TMDb API key from environment variables
API_KEY = os.getenv('TMDB_API_KEY', '0c684301b0330b9fa459310911a03201')  # Replace with your key if needed
BASE_URL = 'https://api.themoviedb.org/3/trending/movie/day'

def fetch_top_trending_movies(api_key, count=5):
    """
    Fetches the top trending movies from TMDb API.

    Args:
        api_key (str): The API key for TMDb.
        count (int): The number of movies to display.

    Returns:
        None: Prints the movie titles and ratings.
    """
    params = {'api_key': api_key}

    try:
        response = requests.get(BASE_URL, params=params)
        response.raise_for_status()  # Raise error for bad responses

        data = response.json()
        movies = data.get('results', [])

        if not movies:
            print("No movies found. Check your API key or the API status.")
            return

        print(f"Top {count} Trending Movies:")
        for i, movie in enumerate(movies[:count]):
            title = movie.get('title') or movie.get('name', 'N/A')
            vote_average = movie.get('vote_average', 'N/A')
            print(f"[{i+1}]: {title} (Rating: {vote_average})")

    except requests.exceptions.RequestException as e:
        print(f"An error occurred: {e}")

# Corrected main check
if __name__ == "__main__":
    fetch_top_trending_movies(API_KEY)
```
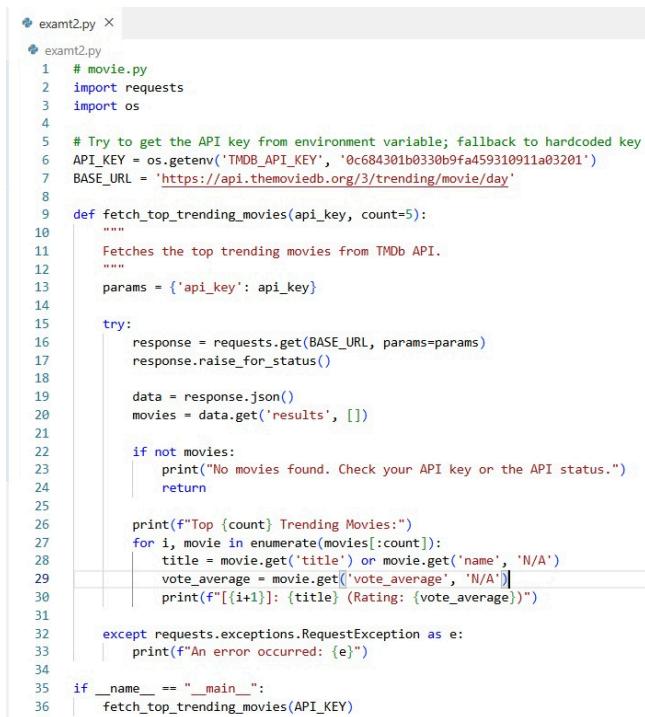
OUTPUT:

```
PS C:\Users\Charan\OneDrive\Desktop\python> python examt1.py
Top 5 Trending Movies:
[1]: Weapons (Rating: 7.5)
[2]: Demon Slayer: Kimetsu no Yaiba Infinity Castle (Rating: 7.4)
[3]: Honey Don't! (Rating: 5.8)
[4]: The Conjuring: Last Rites (Rating: 6.938)
[5]: xXx (Rating: 5.958)
```

code-2:

```python
# movie.py
import requests
import os

# Try to get the API key from environment variable; fallback to hardcoded key
API_KEY = os.getenv('TMDB_API_KEY', '0c684301b0330b9fa459310911a03201')
BASE_URL = 'https://api.themoviedb.org/3/trending/movie/day'

def fetch_top_trending_movies(api_key, count=5):
    """
    Fetches the top trending movies from TMDb API.
    """
    params = {'api_key': api_key}

    try:
        response = requests.get(BASE_URL, params=params)
        response.raise_for_status()

        data = response.json()
        movies = data.get('results', [])

        if not movies:
            print("No movies found. Check your API key or the API status.")
            return

        print(f"Top {count} Trending Movies:")
        for i, movie in enumerate(movies[:count]):
            title = movie.get('title') or movie.get('name', 'N/A')
            vote_average = movie.get('vote_average', 'N/A')
            print(f"[{i+1}]: {title} (Rating: {vote_average})")

    except requests.exceptions.RequestException as e:
        print(f"An error occurred: {e}")

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

output:

```
PS C:\Users\Charan\OneDrive\Desktop\python> python examt2.py
Top 5 Trending Movies:
[1]: Weapons (Rating: 7.5)
[2]: Demon Slayer: Kimetsu no Yaiba Infinity Castle (Rating: 7.4)
[3]: Honey Don't! (Rating: 5.8)
[4]: The Conjuring: Last Rites (Rating: 6.938)
[5]: xXx (Rating: 5.958)
```