

ASSIGNMENT – 15

```
import pandas as pd
import numpy as np
from sklearn.metrics.pairwise import cosine_similarity
from sklearn.model_selection import train_test_split
from sklearn.metrics import mean_squared_error
# Load the data
data = pd.read_csv('spotify_dataset.csv')
user_item_matrix = data.pivot_table(index='user_id', columns='song_id', values='rating')
item_user_matrix = user_item_matrix.T
similar_users = cosine_similarity(item_user_matrix)
```