```python
#DAY-15
#Python program to calculate the cosine similarity between two strings using the Scikit-learn library.You can use the 'TfidfVectorizer' class


from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine_similarity

# Define the two strings
string1 = "This is the first string."
string2 = "This is the second string."

# Create a TfidfVectorizer
vectorizer = TfidfVectorizer()

# Transform the strings into TF-IDF vectors
tfidf_matrix = vectorizer.fit_transform([string1, string2])

# Compute the cosine similarity between the two vectors
cosine_sim = cosine_similarity(tfidf_matrix[0:1], tfidf_matrix[1:2])

# Display the cosine similarity
print(f"Cosine Similarity between the two strings: {cosine_sim[0][0]}")
```

⇥ Cosine Similarity between the two strings: 0.6694188517266485