In [1]:
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import pandas as pd
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.model_selection import train_test_split
from sklearn.naive_bayes import MultinomialNB
from sklearn.metrics import accuracy_score

# Sample data
data = {
    'text': ["I love this product!", "Not happy with the service.", "Neutral feedback."],
    'sentiment': ['positive', 'negative', 'neutral']
}

df = pd.DataFrame(data)

# Split data into train and test sets
X_train, X_test, y_train, y_test = train_test_split(df['text'], df['sentiment'], test_size=0.2, random_state=42)

# Feature extraction using Bag-of-Words
vectorizer = CountVectorizer()
X_train_vect = vectorizer.fit_transform(X_train)
X_test_vect = vectorizer.transform(X_test)

# Train a Naive Bayes classifier
classifier = MultinomialNB()
classifier.fit(X_train_vect, y_train)

# Make predictions
predictions = classifier.predict(X_test_vect)

# Evaluate accuracy
accuracy = accuracy_score(y_test, predictions)
print("Accuracy:", accuracy)
```

```
Accuracy: 0.0
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In [ ]: