

TASK 3

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CODE=

TO PERFORM SENTIMENT ANALYSIS ON TEXT DATA USING NLTK

pip install nltk textblob

```
import nltk from nltk.sentiment import SentimentIntensityAnalyzer from textblob import TextBlob
```

```
nltk.download('vader_lexicon') nltk.download('vader_lexicon')
```

Initialize VADER

SentimentIntensityAnalyzer

```
sia = SentimentIntensityAnalyzer()
```

Example text

```
text1 = "I really love the new AI features, they are so helpful and intuitive!"
```

Perform sentiment analysis

```
sentiment_nltk = sia.polarity_scores(text1)
```

```
print(" ♦ Sentiment Analysis using NLTK VADER:") print(sentiment_nltk)
```

Example text

```
text2 = "The course was boring and the explanations were confusing."
```

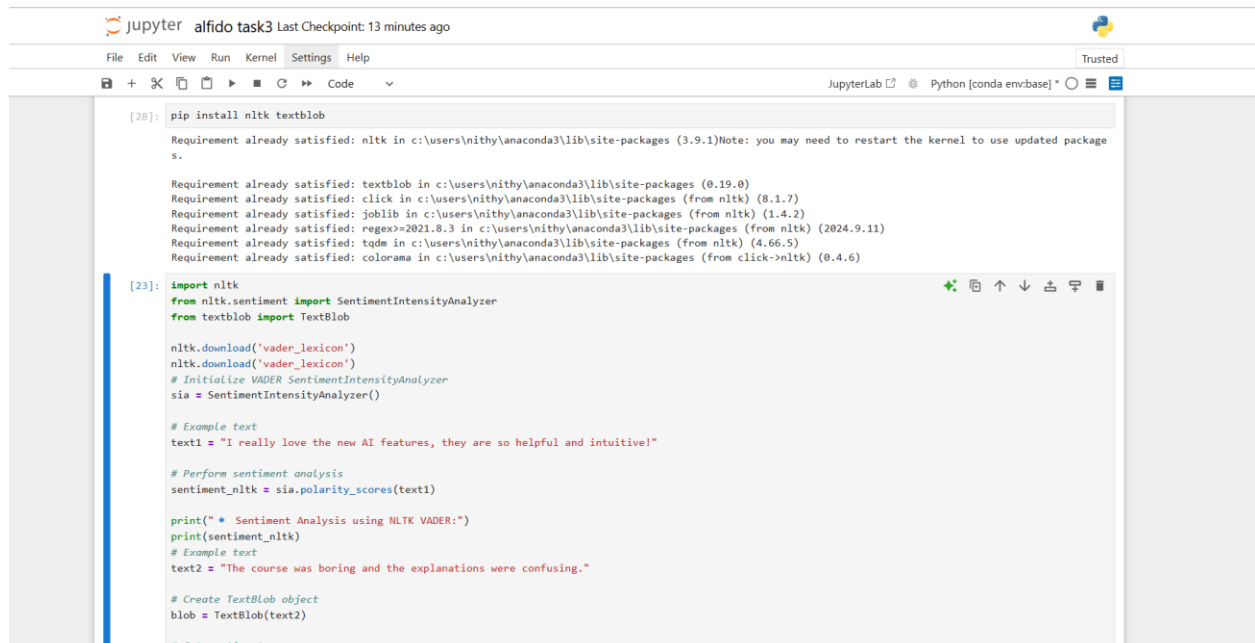
Create TextBlob object

```
blob = TextBlob(text2)
```

Get sentiment

```
print(" ♦ Sentiment Analysis using TextBlob:") print(f"Polarity: {blob.sentiment.polarity},  
Subjectivity: {blob.sentiment.subjectivity}")
```

OUTPUT==



The screenshot shows a JupyterLab window titled "alfido task3" with a last checkpoint 13 minutes ago. The interface includes a menu bar (File, Edit, View, Run, Kernel, Settings, Help) and a toolbar. The main area displays two code cells. The first cell, labeled [28], contains the command `pip install nltk textblob`, which has been executed, resulting in a series of messages indicating that the required packages are already satisfied. The second cell, labeled [23], contains Python code for sentiment analysis using NLTK and TextBlob. This code imports the necessary modules, downloads the VADER lexicon, initializes the `SentimentIntensityAnalyzer`, and defines two example texts. It then performs sentiment analysis on the first text and creates a `TextBlob` object for the second text. The code is partially executed, with the first part highlighted in green.

```
[28]: pip install nltk textblob

Requirement already satisfied: nltk in c:\users\nithy\anaconda3\lib\site-packages (3.9.1)Note: you may need to restart the kernel to use updated package
s.

Requirement already satisfied: textblob in c:\users\nithy\anaconda3\lib\site-packages (0.19.0)
Requirement already satisfied: click in c:\users\nithy\anaconda3\lib\site-packages (from nltk) (8.1.7)
Requirement already satisfied: joblib in c:\users\nithy\anaconda3\lib\site-packages (from nltk) (1.4.2)
Requirement already satisfied: regex>=2021.8.3 in c:\users\nithy\anaconda3\lib\site-packages (from nltk) (2024.9.11)
Requirement already satisfied: tqdm in c:\users\nithy\anaconda3\lib\site-packages (from nltk) (4.66.5)
Requirement already satisfied: colorama in c:\users\nithy\anaconda3\lib\site-packages (from click->nltk) (0.4.6)

[23]: import nltk
      from nltk.sentiment import SentimentIntensityAnalyzer
      from textblob import TextBlob

      nltk.download('vader_lexicon')
      nltk.download('vader_lexicon')
      # Initialize VADER SentimentIntensityAnalyzer
      sia = SentimentIntensityAnalyzer()

      # Example text
      text1 = "I really love the new AI features, they are so helpful and intuitive!"

      # Perform sentiment analysis
      sentiment_nltk = sia.polarity_scores(text1)

      print(" ♦ Sentiment Analysis using NLTK VADER:")
      print(sentiment_nltk)
      # Example text
      text2 = "The course was boring and the explanations were confusing."

      # Create TextBlob object
      blob = TextBlob(text2)
```

```
text2 = "The course was boring and the explanations were confusing."
```

```
# Create TextBlob object
```

```
blob = TextBlob(text2)
```

```
# Get sentiment
```

```
print(" ♦ Sentiment Analysis using TextBlob:")
```

```
print(f"Polarity: {blob.sentiment.polarity}, Subjectivity: {blob.sentiment.subjectivity}")
```

```
♦ Sentiment Analysis using NLTK VADER:
```

```
{'neg': 0.0, 'neu': 0.543, 'pos': 0.457, 'compound': 0.8556}
```

```
♦ Sentiment Analysis using TextBlob:
```