Start coding or generate with AI.

Task 1 : Sentiment Analysis

```python
import nltk
from nltk.sentiment.vader import SentimentIntensityAnalyzer

# Download the VADER lexicon for sentiment analysis
nltk.download('vader_lexicon')

def analyze_sentiment(text):
    sid = SentimentIntensityAnalyzer()
    sentiment_scores = sid.polarity_scores(text)

    # Classify the sentiment based on the compound score
    if sentiment_scores['compound'] >= 0.05:
        return "Positive"
    elif sentiment_scores['compound'] <= -0.05:
        return "Negative"
    else:
        return "Neutral"

# Example usage
user_input = input("Enter text for sentiment analysis: ")
result = analyze_sentiment(user_input)
print("Sentiment: " + result)
```

```
[nltk_data] Downloading package vader_lexicon to /root/nltk_data...
[nltk_data]   Package vader_lexicon is already up-to-date!
Enter text for sentiment analysis: Hurray! the event is happening
Sentiment: Positive
```