```
# Install required NLP libraries
!pip install nltk spacy
```

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Requirement already satisfied: nltk in /usr/local/lib/python3.12/dist-packages (3.9.1)
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```

```python
import nltk
import spacy

# Download NLTK resources (needed for some NLP tasks)
nltk.download('punkt')
```

```
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data]   Package punkt is already up-to-date!
True
```

```python
text = """
Artificial Intelligence is transforming the way people interact with technology.
From healthcare to education, AI systems are improving efficiency and accuracy.
"""
lowercase_text = text.lower()
print("Lowercase Text:\n", lowercase_text)
```

```
Lowercase Text:

 artificial intelligence is transforming the way people interact with technology.
from healthcare to education, ai systems are improving efficiency and accuracy.
```

```python
# Split text into words
words = lowercase_text.split()

# Count words
word_count = len(words)

print("Number of words:", word_count)
```

```
Number of words: 21
```

```
nlp = spacy.blank("en")
doc = nlp(lowercase_text)

print("First 5 tokens:")
for token in doc[:5]:
    print(token.text)
```

```
First 5 tokens:


artificial
intelligence
is
transforming
```

Start coding or generate with AI.