

EXP NO: 4

```
from collections import Counter
import re

def get_top_50_words(text, stop_words=None):
    if stop_words is None:
        stop_words = {
            "a", "about", "above", "after", "again", "against", "all", "am", "an", "and",
            "any", "are", "as", "at", "be", "because", "been", "before", "being", "below",
            "between", "both", "but", "by", "could", "did", "do", "does", "doing", "down",
            "during", "each", "few", "for", "from", "further", "had", "has", "have", "having",
            "he", "her", "here", "hers", "herself", "him", "himself", "his", "how", "i", "if",
            "in", "into", "is", "it", "its", "itself", "just", "me", "more", "most", "my",
            "myself", "no", "nor", "not", "now", "of", "off", "on", "once", "only", "or",
            "other", "our", "ours", "ourselves", "out", "over", "own", "same", "she", "should",
            "so", "some", "such", "than", "that", "the", "their", "theirs", "them", "themselves",
            "then", "there", "these", "they", "this", "those", "through", "to", "too", "under",
            "until", "up", "very", "was", "we", "were", "what", "when", "where", "which", "while",
            "who", "whom", "why", "will", "with", "you", "your", "yours", "yourself", "yourselves"
        }

    words = re.findall(r'\b\w+\b', text.lower())
    filtered_words = [word for word in words if word not in stop_words]
    word_counts = Counter(filtered_words)
    return word_counts.most_common(50)

sample_text = """In the middle of the night, the wind howled through the empty streets, whispering secrets that no one would
e, 1), ('would', 1), ('ever', 1), ('hear', 1)]
result = get_top_50_words(sample_text)
print(result)
```

OUTPUT:

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[('middle', 1), ('night', 1), ('wind', 1), ('howled', 1), ('empty', 1), ('streets', 1), ('whispering', 1), ('secrets', 1), ('one', 1), ('would', 1), ('ever', 1), ('hear', 1)]
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