

## EXPERINMENT-13

13. Scenario: You are working on a text analysis project and need to determine the frequency distribution of words in a given text document. You have a text document named "sample\_text.txt"

containing a paragraph of text. Your task is to develop a Python program that reads the text document, processes the text, and generates a frequency distribution of the words.

Question: How would you develop a Python program to calculate the frequency distribution of words in a text document?

### Code:

```
from collections import Counter
import string
with open("sample_text.txt", "r") as file:
    text = file.read().lower()
clean_text = text.translate(str.maketrans("", "", string.punctuation))
words = clean_text.split()
freq = Counter(words)
print("Word Frequency Distribution:")
print(freq)
```

### Output:

```
[Done] exited with code=0 in 29.448 seconds

[Running] python -u "c:\Users\karan\OneDrive\Desktop\New folder (2)\13.py"
Word Frequency Distribution:
Counter({'hello': 1, 'shanmukh': 1})
```