

[Day-5 -2211cs020196]1. Write a Python program to calculate the frequency of each word in a given text. Print the words and their corresponding counts

```
In [1]: 1 from collections import Counter
2 import re
3 def word_frequency(text):
4     words = re.findall(r'\b\w+\b', text.lower())
5     frequency = Counter(words)
6     return frequency
7 text = "Write a Python program to calculate the frequency of each word in a
8 freq = word_frequency(text)
9 for word, count in freq.items():
10     print(f'{word}: {count}')
```

```
write: 1
a: 2
python: 1
program: 1
to: 1
calculate: 1
the: 2
frequency: 1
of: 1
each: 1
word: 1
in: 1
given: 1
text: 1
print: 1
words: 1
and: 1
their: 1
corresponding: 1
counts: 1
```

```
In [ ]: 1
```