

# Task 7: Implement a Simple Word Count Program

## DESCRIPTION:

- This is the description of Task-7 of my python internship at Happieloop.
- Here, the task is to **Implement a Single Word Count Program.**
- I have created a file **task7.py** and developed python code according to the requirements to implement the operations.
- The purpose of the program that I have developed is to find the total length of the words present in text that was given as input by the user.
- I have developed a very simple code for implementing this task.
- I have imported the 're' module from python libraries.
- The 're' module in Python provides support for regular expressions for string matching and manipulation, allowing for sophisticated text processing and pattern matching operations.
- I have also used the line to make all words in the text as a list: **words = re.findall(r'\b\w+\b', Text)**  
    **re.findall():** This is a function provided by the Python re module, which is used for finding all non-overlapping matches of the given pattern in the string.

**r'\b\w+\b'**: This is the regular expression pattern that specifies the sequence to be matched. Here's what each component of the pattern means:

**\b**: This is a word boundary. It matches the empty string at the beginning or end of a word.

**\w+**: This matches one or more occurrences of word characters (alphanumeric characters and underscores). It ensures that only sequences of word characters are matched.

**\b**: This is another word boundary, ensuring that the matched sequence ends at a word boundary.

- And from that **words** list the count of words can be found by using **len()** function.
- Below will be the implementation and example input to determine the corresponding output.

### **CODE:**

```
import re
Text = input("Enter your text:\n")
words = re.findall(r'\b\w+\b', Text)
count = len(words)
print(f"The total number of words in the text is: {count}")
```

- Now let me show some of the sample inputs and corresponding outputs for the above code.

## **OUTPUTS:**

Enter your text:

Hi,Everyone.Good morning everyone.I am very glad to meet you all today here.Well,I want share my experience with you all today.

The total number of words in the text is: 25