**Implementation of tokenization, stemming/ Lemmatization and stop words removal**

1. **Display all tokens in the form of word cloud**
2. **Apply stop words removal**
3. **Display the result of stemming and lemmatization**

Para1:

You are musicophile,” One who loves music”. In your interactions with your MCA classmates you found another musicophile ,”Ameyatma”(classmate) and become friends. Now you want to flaunt your programming skills and love for music to your friend. Write a **class** called “**showoff**” which has a **instance variable** “**song**”(String datatype) and a **method** called “**unscramble**”. The method unscrambles the words in the string “song” and prints it. The variable “song” is a stanza from a song but is strange. It has words and numbers in between them, you need to order the words depending on the numbers and print the correct stanza. Consider the following example and run your program for the given two testcases. Create an object of the class and call the method.

Para2:

**Social media mining** is the process of obtaining [big data](https://en.wikipedia.org/wiki/Big_data) from [user-generated content](https://en.wikipedia.org/wiki/User-generated_content) on social media sites and [mobile apps](https://en.wikipedia.org/wiki/Mobile_apps) in order to extract actionable patterns, form conclusions about users, and act upon the information, often for the purpose of advertising to users or conducting research. The term is an analogy to the resource extraction process of [mining](https://en.wikipedia.org/wiki/Mining) for rare minerals. Resource extraction mining requires mining companies to shift through vast quantities of raw ore to find the precious minerals; likewise, social media mining requires human data analysts and automated software programs to shift through massive amounts of raw social media data in order to discern patterns and trends relating to social media usage, online behaviours, sharing of content, connections between individuals, online buying behaviour, and more. These patterns and trends are of interest to companies, governments and not-for-profit organizations, as these organizations can use these patterns and trends to design their strategies or introduce new programs, new products, processes or services.

Social media mining uses a range of basic concepts from [computer science](https://en.wikipedia.org/wiki/Computer_science), [data mining](https://en.wikipedia.org/wiki/Data_mining), [machine learning](https://en.wikipedia.org/wiki/Machine_learning) and [statistics](https://en.wikipedia.org/wiki/Statistics). Social media miners develop [algorithms](https://en.wikipedia.org/wiki/Algorithm) suitable for investigating massive files of social media data. Social media mining is based on theories and methodologies from [social network analysis](https://en.wikipedia.org/wiki/Social_network_analysis), [network science](https://en.wikipedia.org/wiki/Network_science), [sociology](https://en.wikipedia.org/wiki/Sociology), [ethnography](https://en.wikipedia.org/wiki/Ethnography), optimization and mathematics. It encompasses the tools to formally represent, measure and model meaningful patterns from large-scale social media data.[[1]](https://en.wikipedia.org/wiki/Social_media_mining#cite_note-Zafarani-1) In the 2010s, major corporations, governments and not-for-profit organizations engaged in social media mining to obtain data about customers, clients and citizens.

**MCA171 Python Programming -CAT 2 Component 2**

**Date:13/10/2021 Time 10.30-12.30PM**

You are an aspiring “intelligencer”- secret spy. Unfortunately stuck with writing python code today. But you are an out and out optimistic !. So mix passion with coding! Write a class called “intelligencer” which has an instance variable called “secret\_code” (String datatype) and method called “decode”. The “secret\_code” is as the name secret, it contains words and numbers in between them, the method “decode” will order the words depending on the numbers and print the secret message. Consider the following example and run your program for the given two testcases. Create an object of the class and call the method.

**Example**:

secret\_code=” t1his to3o cr4azy i2s” , the method decode() will print ->”this is too crazy”

**Test case 1**:

secret\_code =”informa7tion Me1et Saturd5ay a2t fo6r o4n ca3fe” decode() will print ->” Meet at cafe on Saturday for information”

**Test case 2**:

secret\_code =”no6t exerc2ise Thi1s I4 wil5l suc3ks cod7de”, decode() will print->” This exercise sucks I will not code”

**MCA171 Python Programming -CAT 2 Component 2**

**Date:13/10/2021 Time 10.30-12.30PM**

You are a “Marvel” fan and today you feel like binging few movies of Marvel. Unfortunately you are struck in CAT2 exam of Python. You are irritated but being the “Cool Geek” you figure out to involve Marvel in your code. Write a class called”Love\_For\_Marvel” with an instance variable called “famous\_quote”(String datatype) and method called print\_the\_quote, it prints the famous\_quote. but it is little strange, it is jumbled with a numbers and the method should reorder it and print the proper quote. Consider the following example and run your program for the given two testcases. Create an object of the class and call the method.

**Example**:

famous\_quote =” t1his dam3n cr4azy i2s” , the method print\_the\_quote () will print ->”this is damn crazy”

**Test case 1**:

famous\_quote =”thi7s The1re Star5k wa2s kno6ws ide4a a3n” print\_the\_quote () will print ->” There was an idea Stark knows this”

**Test case 2**:

famous\_quote =”foo6lish wi2se Th1e bri4dges whi5le buil3d barr7iers”, print\_the\_quote () will print->” The wise build bridges while foolish barriers."