

**[Day-6 2211cs020196]Write a Python program to using NLTK and Spacy Convert text to lowercase. Remove stopwords using NLTK** 

In [2]:

```
1 !pip install nltk spacy
2 import spacy
3 from nltk.corpus import stopwords
4 import nltk
5 import re
6 nltk.download('stopwords')
7 nlp = spacy.load("en_core_web_sm")
8 def process_text(text):
9     text = text.lower()
10    text = re.sub(r'^\w\s', '', text)
11    doc = nlp(text)
12    stop_words = set(stopwords.words('english'))
13    filtered_words = [token.text for token in doc if token.text not in stop_words]
14    return " ".join(filtered_words)
15 text = "Write a Python program to using NLTK and Spacy. Convert text to lowercase"
16 processed_text = process_text(text)
17 print(processed_text)
18
```

```

rom requests<3.0.0,>=2.13.0->spacy) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in d:\python\lib\site-packa
ges (from requests<3.0.0,>=2.13.0->spacy) (1.26.16)
Requirement already satisfied: certifi>=2017.4.17 in d:\python\lib\site-packa
ges (from requests<3.0.0,>=2.13.0->spacy) (2023.7.22)
Requirement already satisfied: blis<0.8.0,>=0.7.8 in d:\python\lib\site-packa
ges (from thinc<8.3.0,>=8.1.8->spacy) (0.7.11)
Requirement already satisfied: confection<1.0.0,>=0.0.1 in d:\python\lib\site
-packages (from thinc<8.3.0,>=8.1.8->spacy) (0.1.4)
Requirement already satisfied: colorama in d:\python\lib\site-packages (from
tqdm->nlk) (0.4.6)
Requirement already satisfied: cloudpathlib<0.17.0,>=0.7.0 in d:\python\lib\s
ite-packages (from weasel<0.4.0,>=0.1.0->spacy) (0.16.0)
Requirement already satisfied: MarkupSafe>=2.0 in d:\python\lib\site-packages
(from jinja2->spacy) (2.1.1)

[nltk_data] Downloading package stopwords to C:\Users\Sai Krishna
[nltk_data]      Hari\AppData\Roaming\nltk_data...
[nltk_data]   Package stopwords is already up-to-date!

write python program using nltk spacy convert text lowercase remove stopwords
using nltk

```

In [ ]:

1