## Experiment -9

6/4/23 Implementation of NLP programs.

Aim: To implement NLP aggorithme

Algorithm. Opreprocesso the text:

Remove punchahan, stepwards and other irrelevancies from the sample text.

- (2) Tokenize the text into words and sentences and performing any necessary stemming and temmatication
- 3 Calculate importance 00 with TF-IDF on text Rank .
- (4) create summary: concatenate the scheeted sentences to create sumay.
- (3) check for coherence.
- (8) Evaluate the getter summary I UK evaluation metrics to calculate result.

A Refine the algorithm and analyze the evalvation results and refine the algorithm as necessary to improve the quality of tent.

esult: Thus, we have successfully implemented and excepted as NLP programs.

```
import nltk
from nltk.tokenize import word_tokenize, sent_tokenize
from nltk.corpus import stopwords
from collections import Counter
# Sample text to process
text = "The quick brown fox jumped over the lazy dog. The dog slept well.
# Tokenize the text into words and sentences
words = word_tokenize(text)
sentences = sent_tokenize(text)
# Remove stop words
stop_words = set(stopwords.words('english'))
filtered_words = [word for word in words if word.casefold() not in stop_words]
# Count word frequency
word_counts = Counter(filtered words)
most_common_words = word_counts.most_common(5)
# Print results
print("Original text:\n", text)
print("\nTokenized words:\n", words)
print("\nTokenized sentences:\n", sentences)
print("\nFiltered words:\n", filtered_words)
print("\nMost common words:\n", most_common_words)
```

## Manual Calculation / Output: Aller and building books

Input text:

input taken from veer [code]

and work

output - "

summary :

i/p length: 178

Ofplingth: 63