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**Semester & Section:** Semester VII – AIML-B (A-3)

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| **S.No** | **Experiment Title** | **Date**  **of Experiment** | **Date of Submission** | **Sign student** | **CO Covered** | **Sign Faculty** |
| **1** | Explore Python NLTK and all the text corpora available in NLTK. |  |  |  |  |  |
| **2** | Find the most frequently occurring five words from a piece of text. |  |  |  |  |  |
| **3** | Write a program to list all instances of the word ‘the’ in the Brown corpus using regular expressions. |  |  |  |  |  |
| **4** | Write a program to print all the bigrams and trigrams from a given corpus and sorting them by frequency. |  |  |  |  |  |
| **5** | Write a program to perform add-one smoothing on a sparse bigram table. |  |  |  |  |  |
| **6** | Write a program to read text data from a file and perform tokenization on sentence and word level using diferent tokenizers in Python NLTK. |  |  |  |  |  |
| **7** | Write a program to read text data from a file and perform Part of Speech Tagging, stop-word removal, stemming (using different stemmers), lemmatization and identify the difference between stemming and lemmatization. |  |  |  |  |  |
| **8** | Write a program to find the unusual words in a given language. |  |  |  |  |  |
| **9** | Write a program to read text data from a file and perform chunking and chinking. |  |  |  |  |  |
| **10** | Write a program to read text data from a file and implement Named Entity Recognition. |  |  |  |  |  |
| **11** | Write a program to compute the similarity between any two sentences of text using different metrics for analyzing textual similarity. |  |  |  |  |  |
| **12** | Write a program to read text data from a file and perform pre-processing, Word Sense Disambiguation and list of synonyms, antonyms, hypernyms and hyponyms of every word as obtained from the lexical ontology WordNet. |  |  |  |  |  |
| **13** | Write a Python program to implement Co-Reference resolution. |  |  |  |  |  |
| **14** | Write a program to perform text classification in Python using TF-IDF. |  |  |  |  |  |
| **15** | Write a program to perform Sentiment Analysis of hotel reviews using SentiWordNet. |  |  |  |  |  |