## Terna Engineering College Computer Engineering Department Program: Sem VIII

**Course: Natural Language Processing** 

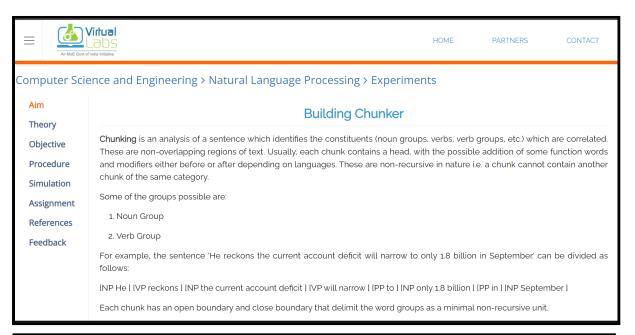
## **Experiment No. 9**

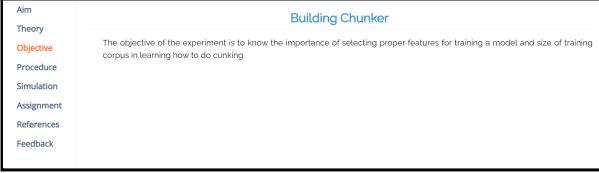
A.1 Aim: Perform and analyse chunking operations using the virtual lab.

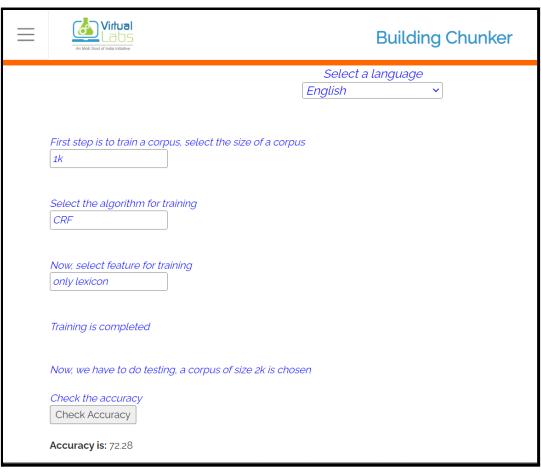
# PART B (PART B: TO BE COMPLETED BY STUDENTS)

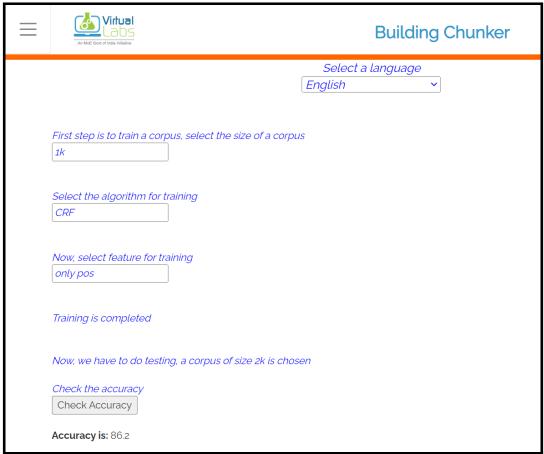
Roll No. 50	Name: AMEY THAKUR
Class: BE COMPS B	Batch: B3
Date of Experiment: 01-04-2022	Date of Submission: 01-04-2022
Grade:	

#### **B.1 Virtual Lab (Input & Output):**

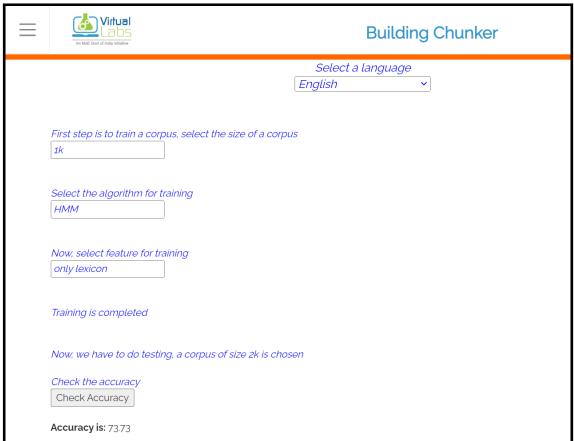


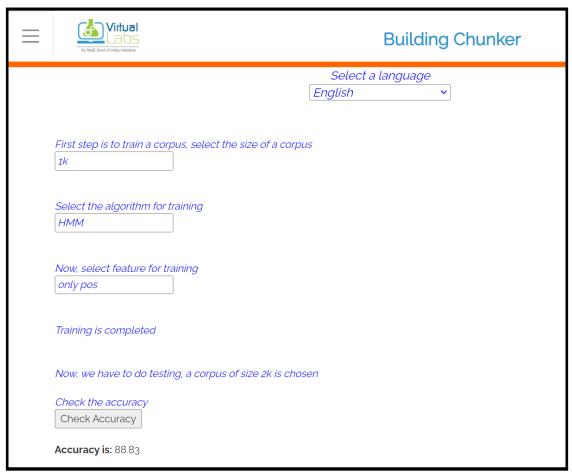


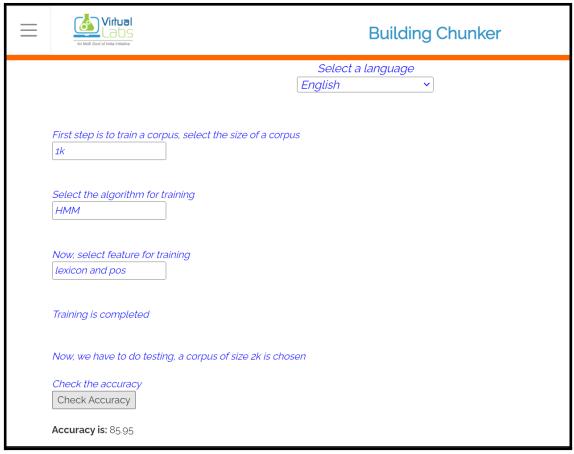












#### **B.2 Observations and learning:**

Chunking of text involves dividing a text into syntactically correlated words.
 Each chunk has an open boundary and close boundary that delimit the word groups as a minimal non-recursive unit. This can be formally expressed by using IOB prefixes.

#### **B.3 Conclusion:**

- Thus, we were able to learn about chunking and the type of chunking with a practical approach.

### **B.4 Question of Curiosity:**

Q1: Following are some erroneous chunks. Identify the errors, mark them into three categories: invalid chunk boundaries, not a minimal phrase and incorrect chunk label.

Do the necessary corrections. Note: The categories may be overlapping.

1. [NP She] [VP is] [AJDP a beautiful] [NP girl] ANS: NO ERROR.

2. [NP He] [VP could not] [ADJP be tolerated] ANS: VP could not-invalid chunk boundaries.

[NP They] [VP invited] [NP him to] [NP the dinner party]
 ANS: NP him to- invalid chunk boundaries.
 NP the dinner party- not a minimal phrase.

4. [NP He] [VP was shot] [NP by the swats] ANS: NP by the swats- invalid chunk boundaries.

5. [NP He] [VP longed] [PP for] [NP a hot cup of coffee] ANS: NP a hot cup of coffee - incorrect chunk label.