



Batch: H2_1 **Roll No.:** 16010122151

Experiment No. 7

TITLE : To perform VLab on NLP

AIM: Vlab on NLP

Expected OUTCOME of Experiment:

CO5: Apply data analytics in the field of Health care.

Books/ Journals/ Websites referred:

Students have to list.

Pre Lab/ Prior Concepts:

Students should have a basic understanding of word analysis.

Procedure:

Vlab Name: Computer Science and Engineering -Natural Language Processing-
Word Generation

Vlab Link: <https://nlp-iiith.vlabs.ac.in/exp/morphology/>

Morphology

Select a Root Word

नदी ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
नदी ▼	इ ▼	sing	dr	✓
नदी ▼	इयों ▼	plu	dr	✓
नदी ▼	इ ▼	sing	ob	✓
नदी ▼	इयों ▼	plu	ob	✓

Submit

Correct Answer!



SOMAIYA
VIDYAVIHAR UNIVERSITY

K J Somaiya College of Engineering

K. J. Somaiya College of Engineering, Mumbai-77
(A Constituent College of Somaiya Vidyavihar University)
Department of Computer Engineering

Morphology

Select a Root Word

माला ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
आ ▼	आ ▼	sing	dr	✓
आ ▼	आयें ▼	plu	dr	✓
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Submit

Correct Answer!

Morphology

Select a Root Word

लता ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
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आ ▼	आयें ▼	plu	dr	✓
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आ ▼	आओं ▼	plu	ob	✓

Submit

Correct Answer!

Correct Answer!



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Morphology

Select a Root Word

सड़का ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
आ ▼	आ ▼	sing	dr	✓
आ ▼	ए ▼	plu	dr	✓
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Submit

Correct Answer!

Morphology

Select a Root Word

घोड़ा ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
आ ▼	आ ▼	sing	dr	✓
आ ▼	ए ▼	plu	dr	✓
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आ ▼	औ ▼	plu	ob	✓

Submit

Correct Answer!



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Morphology

Select a Root Word

गाथा ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
आ ▼	आ ▼	sing	dr	✓
आ ▼	आयें ▼	plu	dr	✓
आ ▼	आ ▼	sing	ob	✓
आ ▼	आर्आ ▼	plu	ob	✓

Submit

Correct Answer!

Morphology

Select a Root Word

गली ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
है ▼	है ▼	sing	dr	✓
है ▼	हैं ▼	plu	dr	✓
है ▼	है ▼	sing	ob	✓
है ▼	हैं ▼	plu	ob	✓

Submit

Correct Answer!

Morphology

Select a Root Word

गधा ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
आ ▼	आ ▼	sing	dr	✓
आ ▼	ए ▼	plu	dr	✓
आ ▼	ए ▼	sing	ob	✓
आ ▼	आ ▼	plu	ob	✓

Submit

Correct Answer!



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Morphology

Select a Root Word

बच्चों ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
बच्चे ▼	ई ▼	sing	dr	✓
बच्चे ▼	इयाँ ▼	plu	dr	✓
बच्चे ▼	बच्चे ▼	sing	ob	✓
बच्चे ▼	इयाँ ▼	plu	ob	✓

Submit

Correct Answer!

Morphology

Select a Root Word

बच्चा ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
आ ▼	आ ▼	sing	dr	✓
आ ▼	ए ▼	plu	dr	✓
आ ▼	ए ▼	sing	ob	✓
आ ▼	आ ▼	plu	ob	✓

Submit

Correct Answer!



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Morphology

Select a Root Word

शाखा ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
आ ▼	आ ▼	sing	dr	✓
आ ▼	आयें ▼	plu	dr	✓
आ ▼	आ ▼	sing	ob	✓
आ ▼	आआ ▼	plu	ob	✓

Submit

Correct Answer!

Morphology

Select a Root Word

माली ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
रने ▼	रने ▼	sing	dr	✓
रने ▼	रने ▼	plu	dr	✓
रने ▼	रने ▼	sing	ob	✓
रने ▼	इयाँ ▼	plu	ob	✓

Submit

Correct Answer!

Morphology

Select a Root Word

कूली ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
रने ▼	रने ▼	sing	dr	✓
रने ▼	रने ▼	plu	dr	✓
रने ▼	रने ▼	sing	ob	✓
रने ▼	इयाँ ▼	plu	ob	✓

Submit

Correct Answer!



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Morphology

Select a Root Word

जोहरी ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
जोह	जोह	sing	dr	✓
जोह	जोह	plu	dr	✓
जोह	जोह	sing	ob	✓
जोह	इयाँ	plu	ob	✓

Submit

Correct Answer!

Morphology

Select a Root Word

आदमी ▼

Fill the add delete table here:

Delete	Add	Number	Case	Correction
आद	आद	sing	dr	✓
आद	आद	plu	dr	✓
आद	आद	sing	ob	✓
आद	इयाँ	plu	ob	✓

Submit

Correct Answer!

Thank you for your valuable feedback : Hyder Presswala

Date: 17-10-2024

Signature of faculty in-charge



Post Lab Descriptive Questions:

Q.1 Explain various applications of NLP.

Applications of various NLP are:-

- **Chatbots and Assistants:** Enable conversational interfaces for user interaction.
- **Sentiment Analysis:** Gauge public opinion from feedback and social media.
- **Machine Translation:** Translate text between languages (e.g., Google Translate).
- **Text Classification:** Organize and categorize text (e.g., spam detection).
- **Information Extraction:** Pull structured data from unstructured text.
- **Named Entity Recognition:** Identify and classify entities in text.
- **Speech Recognition:** Convert spoken language into text.
- **Text Summarization:** Generate concise summaries of documents.
- **Recommendation Systems:** Personalize suggestions based on user preferences.
- **Medical Applications:** Analyze clinical notes and assist in diagnostics.
- **Legal Document Analysis:** Review and extract information from legal texts.
- **Educational Tools:** Provide personalized learning experiences and writing assistance.

Q.2 What is the significance of Natural Language Processing (NLP) in modern technology, and how does it impact various industries?

A) Natural Language Processing (NLP) plays a crucial role in modern technology, significantly impacting various industries in the following ways:

Significance in Modern Technology

- **Human-Computer Interaction:** NLP facilitates more intuitive interactions between users and machines, enabling technologies to understand and respond to natural language commands.
- **Data Processing and Analysis:** With vast amounts of unstructured data generated daily, NLP enables efficient processing, allowing businesses to extract valuable insights from text data.
- **Automation:** NLP automates repetitive tasks such as data entry, document classification, and customer service, improving efficiency and reducing operational costs.
- **Personalization:** It allows for personalized experiences by analyzing user preferences and behaviors, enhancing user engagement and satisfaction.

Impact on Various Industries

- **Healthcare:** NLP aids in analyzing clinical notes, extracting patient data, and supporting diagnostics, leading to improved patient care and outcomes.
- **Finance:** Financial institutions use NLP for sentiment analysis in trading, fraud detection, and analyzing regulatory compliance documents.
- **Retail:** NLP enhances customer experience through chatbots, personalized recommendations, and sentiment analysis of customer feedback.
- **Legal:** Law firms utilize NLP to review contracts, conduct legal research, and streamline document management, saving time and resources.
- **Education:** NLP-powered tools assist in automated grading, personalized learning, and language translation, making education more accessible.
- **Marketing:** Businesses leverage NLP for market research, brand monitoring, and targeted advertising based on customer sentiment and preferences.
- **Telecommunications:** NLP helps improve customer support by automating responses and analyzing customer interactions for service improvements.