

**DEPARTMENT OF COMPUTER ENGINEERING**

## CSL804 Computational Lab II

**Eighth Semester, 2021-2022 (Even Semester)**

**Name of Student :** Saurav Kumar

## Roll No. 23

**Division :** BE – CMPN

**Day/ Session :** Monday/Afternoon

**Venue :** SLRTCE Lab 305

## Experiment No. 6

**Title of Experiment :** To perform Name Entity Recognition for English language.

## Date of Conduction :

**Date of Submission :**

|  |  |  |
| --- | --- | --- |
| **Particulars Max. Marks Marks Obtained** | | |
| Preparedness and Efforts(PE) | **3** |  |
| Knowledge of tools(KT) | **3** |  |
| Debugging and results(DR) | **3** |  |
| Documentation(DN) | **3** |  |
| Punctuality & Lab Ethics(PL) | **3** |  |
| **Total** | **15** |  |

**Grades – Meet Expectations (3 Marks), Moderate Expectations (2 Marks), Below Expectations (1 Mark)**

**Checked and Verified by Name of Faculty :** Prof. Neelam Kulkarni

## Signature :

**Date :**

EXPERIMENT NO: 6

NAME ENTITY RECOGNITION

**AIM:** To perform Name Entity Recognition for English language.

**SOFTWARE:** Python, Spacy

# THEORY:

Named Entity Recognition (NER) is a standard NLP problem which involves spotting named entities (people, places, organizations etc.) from a chunk of text, and classifying them into a predefined set of categories. Some of the practical applications of NER include:

* Scanning news articles for the people, organizations and locations reported.
* Providing concise features for search optimization: instead of searching the entire content, one may simply search for the major entities involved.
* Quickly retrieving geographical locations talked about in Twitter posts.

# IMPLEMENTATION:

EXAMPLE 1 CODE

import spacy

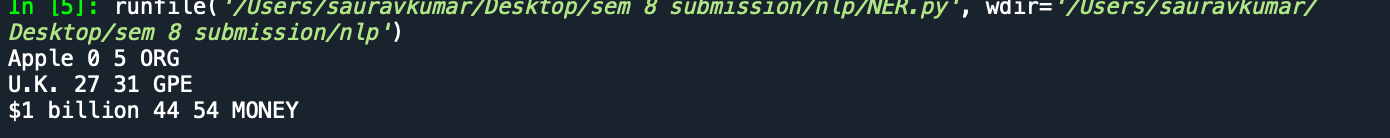
nlp = spacy.load('en\_core\_web\_sm')

sentence = "Apple is looking at buying U.K. startup for $1 billion" doc = nlp(sentence)

for ent in doc.ents:

print(ent.text, ent.start\_char, ent.end\_char, ent.label\_) print()

OUTPUT



# CONCLUSION:

Thus we have studied and performed Name Entity Recognition for English language.