NLP Experiment No:8

Aim: Implement Named Entity Recognizer for the given text input.

Code:

```
import spacy
import spacy.cli
spacy.cli.download("en_core_web_sm")

✓ Download and installation successful
You can now load the model via spacy.load('en_core_web_sm')

[9] nlp= spacy.load('en_core_web_sm')

[11] def show_ents(doc):
        if doc.ents:
            for ent in doc.ents:
                print(ent.text+' - ' +ent.label_ + ' - '+str(spacy.explain(ent.label_)))
        else:
            print('No named entities found.')
    ex_text='''Mahatma Gandhi is very famous in India as Bapu. His full name is Mohandas Karamchand
    Gandhi. He was a great freedom fighter who led India against British rule He was born on 2nd
    of October 1869 in Porbandar Gujarat He was a leader of Congress as it was the only national
    party in India.'''
    doc=nlp(ex_text)
    show_ents(doc)
```

Output:

```
Mahatma Gandhi - PERSON - People, including fictional
India - GPE - Countries, cities, states
Mohandas Karamchand - PERSON - People, including fictional
Gandhi - PERSON - People, including fictional
India - GPE - Countries, cities, states
British - NORP - Nationalities or religious or political groups
2nd - DATE - Absolute or relative dates or periods
October 1869 - DATE - Absolute or relative dates or periods
Congress - ORG - Companies, agencies, institutions, etc.
India - GPE - Countries, cities, states
```