

EXPERIMENT 9

AIM: Write a program to implement Named Entity Recognition for given corpus in python

SOURCE CODE:

```
import spacy
from spacy import displacy
from collections import Counter
import en_core_web_sm
nlp = en_core_web_sm.load()
doc = nlp(Manchester United Football Club is a professional football club based in Old
Trafford, Greater Manchester, England, that competes in the Premier League, the top flight
of English football. Nicknamed the Red Devils, the club was founded as Newton Heath LYR
Football Club in 1878, but changed its name to Manchester United in 1902. The club moved
from Newton Heath to its current stadium, Old Trafford, in 1910. Manchester United have
won the joint-record number of trophies in English club football, including a record 20
League titles, 12 FA Cups, five League Cups and a record 21 FA Community Shields.')

l1 = list([(X.text, X.label_) for X in doc.ents])
print(*l1, sep = "\n")
```

OUTPUT:

```
('Manchester United Football Club', 'ORG')
('Trafford', 'PERSON')
('Greater Manchester', 'PERSON')
('England', 'GPE')
('the Premier League', 'ORG')
('English', 'NORP')
('the Red Devils', 'ORG')
('Newton Heath LYR Football Club', 'ORG')
('1878', 'DATE')
('Manchester United', 'ORG')
('1902', 'DATE')
('Newton Heath', 'ORG')
('Trafford', 'PERSON')
('1910', 'DATE')
('Manchester United', 'ORG')
('English', 'NORP')
('12', 'CARDINAL')
('five', 'CARDINAL')
('League Cups', 'ORG')
('21', 'CARDINAL')
```

Fig1. Performing NER tagging