Installing NLTK

1. Install NLTK: run sudo pip install -U nltk
2. Install Numpy (optional): run sudo pip install -U numpy
3. Test installation: run python then type import nltk

RELATIONSHIP EXTRACTOR

http://www.nltk.org/book/ch07.html

Research Papers for Reference :

https://www.ijircce.com/upload/2017/march/73_Predictive.pdf

http://cs229.stanford.edu/proj2014/Ben%20Ulmer,%20Matt%20Fernandez,%20Predicting%20Soccer%20Results%20in%20the%20English%20Premier%20League.pdf

Project For Reference:

https://github.com/thommiller/Pymier-League

Theory for extraction:
https://web.stanford.edu/class/cs124/lec/Information_Extraction_and_Named_Entity_Recognition.pdf

Command to annotate a test file which is without labels.

```
java -cp stanford-ner.jar edu.stanford.nlp.ie.crf.CRFClassifier -loadClassifier
/home/shubham/FYProject/annotatedreports/ner-model.ser.gz -textFile
/home/shubham/FYProject/annotatedreports/MANvsSOU_Aug20-2016.tsv >
/home/shubham/FYProject/annotatedreports/tested/MANvsSOU:Aug20-2017.txt
```

SCRIPT-

```
java -cp stanford-ner.jar edu.stanford.nlp.ie.crf.CRFClassifier -prop
/home/shubham/FYProject/annotatedreports/austen.prop
```

```
java -cp stanford-ner.jar edu.stanford.nlp.ie.crf.CRFClassifier -loadClassifier
/home/shubham/FYProject/annotatedreports/ner-model.ser.gz -testFile
/home/shubham/FYProject/annotatedreports/MANvsHUL\:Feb2-2017.tsv >
/home/shubham/FYProject/annotatedreports/tested/MANHUL.tsv
```

```
java -cp stanford-ner.jar edu.stanford.nlp.process.PTBTokenizer
~/fyproject/reports/MANvsSOU:Aug20,2016.txt >
~/fyproject/tokenizedreports/MANvsSOU:Aug20,2016.tok
```

```
perl -ne 'chomp; print "$_\tO\n"' ~/fyproject/tokenizedreports/ARSvsMAN:May7,2017.tok >
~/fyproject/annotatedreports/ARSvsMAN:May7,2017.tsv
```