Name: Deep Salunkhe

Roll No.:21102A0014

```
import spacy
# Load the pre-trained model for English
nlp = spacy.load('en core web sm')
# Example text
text = """Today is wednesday in few weeks our sem 7 ends Omkar, Pranav
and Sukant and busy preparing for the Gate Exam and exited to full
fill there IIT dream.
on other hand I and Sahil and exited to start out journy in tech
industry"""
# Process the text through the NLP pipeline
doc = nlp(text)
# Iterate over entities in the text
print("Named Entities, their labels and positions:")
for ent in doc.ents:
    print(f"Entity: {ent.text}, Label: {ent.label }, Start:
{ent.start char}, End: {ent.end char}")
# Print entity labels with explanations
print("\nLabel Explanations:")
for label in set([ent.label for ent in doc.ents]):
    print(f"{label}: {spacy.explain(label)}")
Named Entities, their labels and positions:
Entity: Today, Label: DATE, Start: 0, End: 5
Entity: wednesday, Label: DATE, Start: 9, End: 18
Entity: few weeks, Label: DATE, Start: 22, End: 31
Entity: 7, Label: CARDINAL, Start: 40, End: 41
Entity: Omkar, Label: ORG, Start: 47, End: 52
Entity: the Gate Exam, Label: ORG, Start: 95, End: 108
Entity: IIT, Label: ORG, Start: 139, End: 142
Entity: Sahil, Label: PERSON, Start: 171, End: 176
Label Explanations:
ORG: Companies, agencies, institutions, etc.
DATE: Absolute or relative dates or periods
CARDINAL: Numerals that do not fall under another type
PERSON: People, including fictional
```