```python
"""
Assignment No 6
Name – vaibhav shete
Batch – B3
Roll No - 53
Assignment Title: Implement and
visualize Dependency Parsing of
Textual Input using Standford CoreNLP
and Spacy library


"""

import spacy
from spacy import displacy

nlp = spacy.load("en_core_web_sm")

multiline_text = """
Your smile makes me smile,
Your laugh makes me laugh,
Your eyes are enchanting,
You make my thoughts seem daft.
"""

multiline_doc = nlp(multiline_text)

for token in multiline_doc:
    print(
        f"""
TOKEN: {token.text}
=====
{token.tag_ = }
{token.head.text = }
{token.dep_ = }"""
    )

displacy.serve(multiline_doc,
style="dep")
```

```
# OUTPUT –
"""
TOKEN:

=====
token.tag_ = '_SP'
token.head.text = 'She'
token.dep_ = 'dep'


TOKEN: She
=====
token.tag_ = 'PRP'
token.head.text = 'be'
token.dep_ = 'nsubj'


TOKEN: will
=====
token.tag_ = 'MD'
token.head.text = 'be'
token.dep_ = 'aux'


TOKEN: never
=====
token.tag_ = 'RB'
token.head.text = 'be'
token.dep_ = 'neg'


TOKEN: be
=====
token.tag_ = 'VB'
token.head.text = 'be'
token.dep_ = 'ROOT'


TOKEN: mine
=====
token.tag_ = 'PRP'
token.head.text = 'be'
```

```
token.dep_ = 'attr'


TOKEN:

=====
token.tag_ = '_SP'
token.head.text = 'mine'
token.dep_ = 'dep'


Using the 'dep' visualizer
Serving on http://0.0.0.0:5000 …
"""
```

SPACE ← dep — She (PRON) ← nsubj — will (AUX) ← aux — never (ADV) ← neg — be (AUX) — attr → mine (PRON) — dep → SPACE