```
import spacy
import pandas as pd

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

# nlp = en_core_web_sm.load()
```

```
✓ Download and installation successful
You can now load the package via spacy.load('en_core_web_sm')
⚠ Restart to reload dependencies
If you are in a Jupyter or Colab notebook, you may need to restart Python in
order to load all the package's dependencies. You can do this by selecting the
'Restart kernel' or 'Restart runtime' option.
```

```
# Load the English language model
# nlp = en_core_web_sm.load()
nlp = spacy.load('en_core_web_sm')


data = pd.read_csv('clean_train.csv')
data = data.head(10)


def perform_morphological_analysis(text):
    doc = nlp(text)
    analyzed_tokens = []

    for token in doc:
        analyzed_tokens.append({
            'Token': token.text,
            'Lemma': token.lemma_,
            'POS': token.pos_
        })

    return analyzed_tokens

# Iterate through the dataset and perform morphological analysis for each synopsis
for index, row in data.iterrows():
    synopsis = row['synopsis']
    analyzed_tokens = perform_morphological_analysis(synopsis)

    # Print the results for the first few tokens in the synopsis
    print(f"Synopsis {index + 1}:")
    for token_info in analyzed_tokens[:5]:  # Display the first 5 tokens
        print(f"Token: {token_info['Token']}, Lemma: {token_info['Lemma']}, POS: {token_info['POS']}")
    print("\n")
```

```
Synopsis 1:
Token: A, Lemma: a, POS: DET
Token: young, Lemma: young, POS: ADJ
Token: scriptwriter, Lemma: scriptwriter, POS: NOUN
Token: starts, Lemma: start, POS: VERB
Token: bringing, Lemma: bring, POS: VERB


Synopsis 2:
Token: A, Lemma: a, POS: DET
Token: director, Lemma: director, POS: NOUN
Token: and, Lemma: and, POS: CCONJ
Token: her, Lemma: her, POS: PRON
Token: friends, Lemma: friend, POS: NOUN


Synopsis 3:
Token: This, Lemma: this, POS: PRON
Token: is, Lemma: be, POS: AUX
Token: an, Lemma: an, POS: DET
Token: educational, Lemma: educational, POS: ADJ
Token: video, Lemma: video, POS: NOUN


Synopsis 4:
Token: Scientists, Lemma: scientist, POS: NOUN
Token: working, Lemma: work, POS: VERB
Token: in, Lemma: in, POS: ADP
Token: the, Lemma: the, POS: DET
Token: Austrian, Lemma: Austrian, POS: PROPN
```

```
Synopsis 5:
Token: Buy, Lemma: buy, POS: VERB
Token: Day, Lemma: Day, POS: PROPN
Token: -, Lemma: -, POS: PUNCT
Token: Four, Lemma: four, POS: NUM
Token: Men, Lemma: Men, POS: PROPN


Synopsis 6:
Token: A, Lemma: a, POS: DET
Token: video, Lemma: video, POS: NOUN
Token: voyeur, Lemma: voyeur, POS: NOUN
Token: stalks, Lemma: stalk, POS: VERB
Token: women, Lemma: woman, POS: NOUN


Synopsis 7:
Token: Twin, Lemma: Twin, POS: PROPN
Token: brothers, Lemma: brother, POS: NOUN
Token: separated, Lemma: separate, POS: VERB
Token: at, Lemma: at, POS: ADP
Token: birth, Lemma: birth, POS: NOUN


Synopsis 8:
Token: A, Lemma: a, POS: DET
```