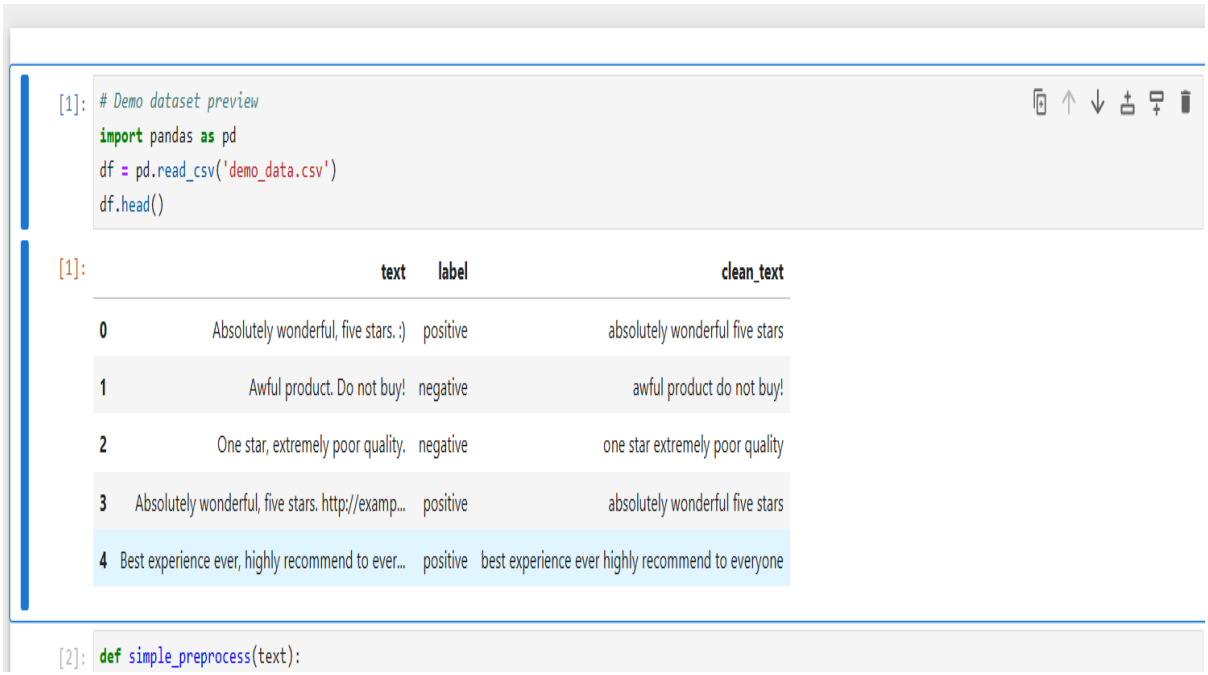
Sentiment Analysis — Code and Output Screenshots

This PDF contains screenshots showing code cells and their outputs for the Sentiment Analysis task, as provided in the supplied images. Each section corresponds to a Jupyter Notebook cell and its results.

Cell 1: Demo dataset preview



```
[1]: # Demo dataset preview
import pandas as pd
df = pd.read_csv('demo_data.csv')
df.head()
```

[1]:

	text	label	clean_text
0	Absolutely wonderful, five stars. :)	positive	absolutely wonderful five stars
1	Awful product. Do not buy!	negative	awful product do not buy!
2	One star, extremely poor quality.	negative	one star extremely poor quality
3	Absolutely wonderful, five stars. http://examp...	positive	absolutely wonderful five stars
4	Best experience ever, highly recommend to ever...	positive	best experience ever highly recommend to everyone

```
[2]: def simple_preprocess(text):
```

Cell 1 (alternate view): Demo dataset preview

```
[1]: # Demo dataset preview
import pandas as pd
df = pd.read_csv('demo_data.csv')
df.head()
```

[1]:

	text	label	clean_text
0	Absolutely wonderful, five stars. :)	positive	absolutely wonderful five stars
1	Awful product. Do not buy!	negative	awful product do not buy!
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3	Absolutely wonderful, five stars. http://examp...	positive	absolutely wonderful five stars
4	Best experience ever, highly recommend to ever...	positive	best experience ever highly recommend to everyone

Cell 2: Preprocessing function and output

[2]:
```
def simple_preprocess(text):
    import re
    text = str(text).lower()
    text = re.sub(r'http\\S+', '', text)
    text = re.sub(r'@\\w+', '', text)
    text = re.sub(r'#', '', text)
    text = re.sub(r'[^a-z0-9\\s\\!\\?]', '', text)
    text = re.sub(r'\\s+', ' ', text).strip()
    return text

# Apply and preview
import pandas as pd
df = pd.read_csv('demo_data.csv')
df['clean_text'] = df['text'].apply(simple_preprocess)
df[['text','clean_text']].head()
```

[2]:

	text	clean_text
0	Absolutely wonderful, five stars. :)	absolutelywonderfulfivestars
1	Awful product. Do not buy!	awfulproductdonotbuy!
2	One star, extremely poor quality.	onestarextremelypoorquality
3	Absolutely wonderful, five stars. http://examp...	absolutelywonderfulfivestarshttpexamplecom
4	Best experience ever, highly recommend to ever...	bestexperienceeverhighlyrecommendtoeveryone