Part 2

1.Check if the sentence is Grammatically correct: Please use any pre-trained model or use text from open datasets. Once done, please evaluate the English Grammar in the text column of the dataset.

```
!pip install language-tool-python
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/
Requirement already satisfied: language-tool-python in /usr/local/lib/python3.7/dist
Requirement already satisfied: tqdm in /usr/local/lib/python3.7/dist-packages (from
Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-packages (f
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-pa
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-package
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-p
```

```python
import numpy as np
import pandas as pd
import language_tool_python
tool = language_tool_python.LanguageTool('en-US')  # language English-US
from textblob import TextBlob
```

```python
data=pd.read_csv('/content/review_data.csv',nrows=1000)
pd.set_option("display.max_column", None)
display(data.head())
```

	text	star	app_id	reviewDate
0	Anathi Khanyile	5	com.fingersoft.hillclimb	18/03/21
1	Tony bahut funny hai Hill climbing racing my f...	5	com.fingersoft.hillclimb	18/03/21
2	Teturwu	1	com.fingersoft.hillclimb	18/03/21
3	Hoooooooooooyaaaaaaaaa what a game hooooooooooo...	5	com.fingersoft.hillclimb	18/03/21
4	This game is nice	5	com.fingersoft.hillclimb	18/03/21

```python
data.shape
```

```
(1000, 4)
```

```python
# check missing values
data.isnull().sum()
```

```
text         0
star         0
```

```
app_id       0
reviewDate   0
dtype: int64
```

```
df=data[['text']]
```

```
df.head()
```

	text
0	Anathi Khanyile
1	Tony bahut funny hai Hill climbing racing my f...
2	Teturwu
3	Hoooooooooooyaaaaaaaaa what a game hooooooooo...
4	This game is nice

```
#check the sentance is correct or not
try:
    df = df.assign(Grammatical_Status = ['Incorrect' if len(tool.check(rows))>0 else 'Corr
except Exception as e:
    print('Error: ', e)
```

```
df.head()
```

	text	Grammatical_Status
0	Anathi Khanyile	Incorrect
1	Tony bahut funny hai Hill climbing racing my f...	Incorrect
2	Teturwu	Incorrect
3	Hoooooooooooyaaaaaaaaa what a game hooooooooo...	Incorrect
4	This game is nice	Correct

```
#correct the sentance
try:
    df = df.assign(Corrected = [tool.correct(rows) for rows in df.text])
except Exception as e:
    print('Error: ', e)
```

```
df.head()
```

	text	Grammatical_Status	Corrected
0	Anathi Khanyile	Incorrect	Anti Handle
1	Tony bahut funny hai Hill climbing racing my f...	Incorrect	Tony Beirut funny HAI Hill climbing racing my ...
2	Teturwu	Incorrect	Return
4	This game is nice	Correct	This game is nice

✓ 0s   completed at 4:33 PM   ● ✕