Importing libraries

In [ ]:
```
!pip install jupyterthemes
```

In [ ]:
```
!jt -t solarizedl
```

In [ ]:
```
!pip install cufflinks
```

In [ ]:
```
pip install transformers
pip install torch
```

In [ ]:
```
!pip install transformers
!pip install torch
```

In [ ]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.express as px
import cufflinks as cf


from transformers import AutoTokenizer, AutoModelForSequenceClassification
import torch
```

In [ ]:
```
!pip install vaderSentiment
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer # for polarity score
```

Setting up the basic code snippets for Sentiment models

In [ ]:
```
analyser = SentimentIntensityAnalyzer()
```

In [1]:
```
!pip install textblob
```

Collecting textblob
  Downloading textblob-0.17.1-py2.py3-none-any.whl (636 kB)
     -------------------------------------- 0.0/636.8 kB ? eta -:--:--
     - ------------------------------------ 30.7/636.8 kB ? eta -:--:--
     - ------------------------------------ 30.7/636.8 kB ? eta -:--:--
     - ------------------------------------ 30.7/636.8 kB ? eta -:--:--
     - ------------------------------------ 30.7/636.8 kB ? eta -:--:--
     - ------------------------------------ 30.7/636.8 kB ? eta -:--:--
     - ------------------------------------ 30.7/636.8 kB ? eta -:--:--
     ----- -------------------------------- 92.2/636.8 kB 261.7 kB/s eta 0:00:03
     ----- -------------------------------- 92.2/636.8 kB 261.7 kB/s eta 0:00:03
     ------ ------------------------------- 112.6/636.8 kB 261.9 kB/s eta 0:00:03
     -------- ----------------------------- 143.4/636.8 kB 303.9 kB/s eta 0:00:02
     --------- ---------------------------- 174.1/636.8 kB 349.3 kB/s eta 0:00:02
     --------- ---------------------------- 174.1/636.8 kB 349.3 kB/s eta 0:00:02
     --------- ---------------------------- 174.1/636.8 kB 349.3 kB/s eta 0:00:02
     --------- ---------------------------- 174.1/636.8 kB 349.3 kB/s eta 0:00:02
     --------- ---------------------------- 174.1/636.8 kB 349.3 kB/s eta 0:00:02
     --------- ---------------------------- 174.1/636.8 kB 349.3 kB/s eta 0:00:02
     --------- ---------------------------- 174.1/636.8 kB 349.3 kB/s eta 0:00:02
     --------- ---------------------------- 174.1/636.8 kB 349.3 kB/s eta 0:00:02
     ---------------------- ----------- 409.6/636.8 kB 464.4 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     ------------------------- ---------- 450.6/636.8 kB 494.2 kB/s eta 0:00:01
     -------------------------- ----- 522.2/636.8 kB 368.1 kB/s eta 0:00:01
     ----------------------------- ----- 542.7/636.8 kB 374.5 kB/s eta 0:00:01
     ------------------------------- --- 573.4/636.8 kB 379.3 kB/s eta 0:00:01
     ------------------------------- --- 583.7/636.8 kB 374.6 kB/s eta 0:00:01
     -------------------------------- - 604.2/636.8 kB 376.4 kB/s eta 0:00:01
     ---------------------------------- 636.8/636.8 kB 378.3 kB/s eta 0:00:00
Requirement already satisfied: nltk>=3.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from textblob) (3.8.1)
Requirement already satisfied: click in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk>=3.1->textblob) (8.0.4)
Requirement already satisfied: joblib in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk>=3.1->textblob) (1.2.0)
Requirement already satisfied: regex>=2021.8.3 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk>=3.1->textblob) (2022.7.9)
Requirement already satisfied: tqdm in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk>=3.1->textblob) (4.65.0)
Requirement already satisfied: colorama in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from click->nltk>=3.1->textblob) (0.4.6)
Installing collected packages: textblob
Successfully installed textblob-0.17.1

In [2]:
```python
analyser = SentimentIntensityAnalyzer()


def pos(tweet):
    SentDict = analyser.polarity_scores(tweet)
    return SentDict['pos']


def neg(tweet):
    SentDict = analyser.polarity_scores(tweet)
    return SentDict['neg']


def neu(tweet):
    SentDict = analyser.polarity_scores(tweet)
```

```
    return SentDict['neu']
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[2], line 1
----> 1 analyser = SentimentIntensityAnalyzer()
      3 def pos(tweet):
      4     SentDict = analyser.polarity_scores(tweet)

NameError: name 'SentimentIntensityAnalyzer' is not defined
```

In [3]:
```
!pip install nltk
```

Requirement already satisfied: nltk in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (3.8.1)
Requirement already satisfied: click in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk) (8.0.4)
Requirement already satisfied: joblib in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk) (1.2.0)
Requirement already satisfied: regex>=2021.8.3 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk) (2022.7.9)
Requirement already satisfied: tqdm in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk) (4.65.0)
Requirement already satisfied: colorama in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from click->nltk) (0.4.6)

In [6]:
```
import nltk
nltk.download('vader_lexicon')
```

[nltk_data] Downloading package vader_lexicon to C:\Users\nikitha
[nltk_data]   deshmukh\AppData\Roaming\nltk_data...
Out[6]:True

In [7]:
```
# Import the SentimentIntensityAnalyzer class from the nltk library
from nltk.sentiment import SentimentIntensityAnalyzer

# Create an instance of the SentimentIntensityAnalyzer
analyser = SentimentIntensityAnalyzer()

# Define a function 'pos' that takes a tweet as input and returns its positive sentiment score
def pos(tweet):
    SentDict = analyser.polarity_scores(tweet)
    return SentDict['pos']

# Define a function 'neg' that takes a tweet as input and returns its negative sentiment score
def neg(tweet):
    SentDict = analyser.polarity_scores(tweet)
    return SentDict['neg']

# Define a function 'neu' that takes a tweet as input and returns its neutral sentiment score
def neu(tweet):
    SentDict = analyser.polarity_scores(tweet)
    return SentDict['neu']
```

Data Loading & Cleaning

In [10]:
```
df_RevanthReddy=pd.read_csv('C:\\Users\\nikitha deshmukh\\OneDrive\\Desktop\\excel\\Combined.csv',index_col=0)
df_RevanthReddy
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[10], line 1
----> 1 df_RevanthReddy=pd.read_csv('C:\\Users\\nikitha deshmukh\\OneDrive\\Desktop\\excel\\Combined.csv',index_col=0)
      2 df_RevanthReddy

NameError: name 'pd' is not defined
```

In [11]:
```
!pip install pandas
```

In [12]:
```python
import pandas as pd

# Now you can use 'pd' to read the CSV file
df_RevanthReddy = pd.read_csv('C:\\Users\\nikitha deshmukh\\OneDrive\\Desktop\\excel\\Combined.csv', index_col=0)
df_RevanthReddy
```

```
---------------------------------------------------------------------------
UnicodeDecodeError                        Traceback (most recent call last)
Cell In[12], line 4
      1 import pandas as pd
      3 # Now you can use 'pd' to read the CSV file
----> 4 df_RevanthReddy = pd.read_csv('C:\\Users\\nikitha deshmukh\\OneDrive\\Desktop\\excel\\Combined.csv', index_col=0)
      5 df_RevanthReddy

File ~\anaconda3\Lib\site-packages\pandas\io\parsers\readers.py:912, in read_csv(filepath_or_buffer, sep, delimiter, header, names, index_col, usecols, dtype, engine, converters, true_values, false_values, skipinitialspace, skiprows, skipfooter, nrows, na_values, keep_default_na, na_filter, verbose, skip_blank_lines, parse_dates, infer_datetime_format, keep_date_col, date_parser, date_format, dayfirst, cache_dates, iterator, chunksize, compression, thousands, decimal, lineterminator, quotechar, quoting, doublequote, escapechar, comment, encoding, encoding_errors, dialect, on_bad_lines, delim_whitespace, low_memory, memory_map, float_precision, storage_options, dtype_backend)
    899 kwds_defaults = _refine_defaults_read(
    900     dialect,
    901     delimiter,
  (...)
    908     dtype_backend=dtype_backend,
    909 )
    910 kwds.update(kwds_defaults)
--> 912 return _read(filepath_or_buffer, kwds)

File ~\anaconda3\Lib\site-packages\pandas\io\parsers\readers.py:577, in _read(filepath_or_buffer, kwds)
    574 _validate_names(kwds.get("names", None))
    576 # Create the parser.
--> 577 parser = TextFileReader(filepath_or_buffer, **kwds)
    579 if chunksize or iterator:
    580     return parser

File ~\anaconda3\Lib\site-packages\pandas\io\parsers\readers.py:1407, in TextFileReader.__init__(self, f, engine, **kwds)
   1404     self.options["has_index_names"] = kwds["has_index_names"]
   1406 self.handles: IOHandles | None = None
-> 1407 self._engine = self._make_engine(f, self.engine)

File ~\anaconda3\Lib\site-packages\pandas\io\parsers\readers.py:1679, in TextFileReader._make_engine(self, f, engine)
   1676     raise ValueError(msg)
   1678 try:
-> 1679     return mapping[engine](f, **self.options)
   1680 except Exception:
   1681     if self.handles is not None:

File ~\anaconda3\Lib\site-packages\pandas\io\parsers\c_parser_wrapper.py:93, in CParserWrapper.__init__(self, src, **kwds)
     90 if kwds["dtype_backend"] == "pyarrow":
     91     # Fail here loudly instead of in cython after reading
     92     import_optional_dependency("pyarrow")
---> 93 self._reader = parsers.TextReader(src, **kwds)
     95 self.unnamed_cols = self._reader.unnamed_cols
     97 # error: Cannot determine type of 'names'

File ~\anaconda3\Lib\site-packages\pandas\_libs\parsers.pyx:550, in pandas._libs.parsers.TextReader.__cinit__()

File ~\anaconda3\Lib\site-packages\pandas\_libs\parsers.pyx:639, in pandas._libs.parsers.TextReader._get_header()

File ~\anaconda3\Lib\site-packages\pandas\_libs\parsers.pyx:850, in pandas._libs.parsers.TextReader._tokenize_rows()

File ~\anaconda3\Lib\site-packages\pandas\_libs\parsers.pyx:861, in pandas._libs.parsers.TextReader._check_tokenize_status()

File ~\anaconda3\Lib\site-packages\pandas\_libs\parsers.pyx:2021, in pandas._libs.parsers.raise_parser_error()

UnicodeDecodeError: 'utf-8' codec can't decode byte 0x92 in position 952: invalid start byte
In [11]: import pandas as pd
```

```python
# Specify a different encoding when reading the CSV file
df_RevanthReddy = pd.read_csv('C:\\Users\\nikitha deshmukh\\OneDrive\\Desktop\\excel\\Combined.csv', index_col=0, encoding='latin1')
```

In [14]: `df_RevanthReddy`

Out[14]:

Name	Tweet
Revanth Reddy	"What are your thoughts on Revanth Reddy's pol...
Revanth Reddy	"Looks like Revanth Reddy is gaining significa...
Revanth Reddy	"Revanth Reddy's campaign seems to be resonati...
Revanth Reddy	Defeating KCR in Kamareddy is not everyone's c...
Revanth Reddy	The hot seat in Telangana is Kodangal. I am Co...
Revanth Reddy	Is #TCongress going to election's without Kary...
Revanth Reddy	Revanth's call for Etala Rajendra !! to join C...
Revanth Reddy	As Usual, It's Clear.. 2 #suitcases for 2 ML...
Revanth Reddy	For Gods Sake save #TCongress Sack #Revanth a...
Revanth Reddy	3 MPs exited the Lok Sabha without voting in s...
Revanth Reddy	Two master strokes by @revanth_anumula as ch...
Revanth Reddy	#TCongress campaign C convener #TeenmarMallann...
Revanth Reddy	#WelcomePractice introduced by #NewTelanganaCM...
Revanth Reddy	Team @INCTelangana filed a complaint at the Mo...
Revanth Reddy	Every Lady must do this whether it is #JSP #TD...
Revanth Reddy	Telangana Congress party president Revanth bro...
Revanth Reddy	Telangana was a dream: the dream of the poor, ...
Revanth Reddy	BC CM in #telangana #BJP always supported the ...
Revanth Reddy	#BJP #trs #BRS #CongressMuktBharat #congress ?...
Revanth Reddy	This time farmer government#trs#hattrick
Revanth Reddy	#Congress leader #RahulGandhi says #TRS has ch...
Revanth Reddy	It's not #BJP #KCR but #Congress #TRS #AIMIM -...
Revanth Reddy	Traveling in a bus after many years ?? spoke t...
Revanth Reddy	Is KCR or Congress more practical?
Revanth Reddy	Hope @INCTelangana @INCIndia @BRSparty @HiHyde...
Revanth Reddy	In #Telangana one side #BJP4Telangana n other ...
Revanth Reddy	KCR has failed to effectively manage responsib...
Revanth Reddy	Is Congress Gonna Form the Government In Tela...
Revanth Reddy	#State #Congress unit #TPCC #President A #Reva...
Revanth Reddy	I am sorry @Swamy39 ji, former @INCIndia pres...
Revanth reddy	"We don't want a Telangana of doors but rather...
Revanth reddy	BRS leaders seen dominating the ruling Congres...

Name	Tweet
Revanth reddy	"Tomorrow, let's come together in large number...
Revanth reddy	To Chief Minister Siddaramaiah, The thief who ...
Revanth reddy	Chai Wala ke saath, Chuna lagane Wala. Mile su...
Revanth reddy	@RahulGandhi your party is sinking in Telangan...
Revanth reddy	Congress means Revanth... Revanth means Congre...
Revanth reddy	Boinapalli Vinod Anna said ?? True, If BRS has...
Revanth reddy	For Gods Sake save #TCongress Sack #Revanth a...
Revanth reddy	#Revanthreddy is doing his actual duty as a BR...
Revanth reddy	Tomorrow's Vijayabheri Sabha, which is expecte...
Revanth reddy	To Chief Minister Siddaramaiah,The thief who w...
Revanth reddy	Revanth's call for Etala Rajendra !! to join C...
Revanth reddy	#RevanthReddy: 3 hours of free electricity for...
Revanth reddy	CM Revanth Reddy, who met Sonia Gandhi, will b...
Revanth reddy	Revanth's call for Etala Rajendra !! to join C...
Revanth reddy	Revanth Reddy: Accusing Chief Minister KCR of ...
Revanth reddy	"CM Revanth Reddy responded to the ?1 lakh aid...
Revanth reddy	Our CM Revanth Reddy is removing powerful offi...
NaN	NaN
NaN	NaN
NaN	NaN
NaN	NaN
NaN	NaN
NaN	NaN
	NaN

In [36]:
```python
import pandas as pd

# Specify a different encoding when reading the CSV file
df_Kcr = pd.read_csv('C:\\Users\\nikitha deshmukh\\OneDrive\\Desktop\\excel\\KCR.csv', index_col=0, encoding='latin1')
```

In [37]:
```python
df_Kcr
```

Out[37]:

NAME	TWEET	Unnamed: 2
KCR	BJP leader Konda Vishweshwar Reddy acknowledge...	NaN
KCR	Just before the assembly elections, #KCR cover...	NaN
KCR	"kcr transformed TRS into BRS, that's why he h...	NaN
KCR	"Kcr has done a lot of injustice."	NaN
KCR	Singareni Elections: Congress affiliated INTUC...	NaN
KCR	There is no doubt BRS Chief #KCR undoubtedly s...	NaN
KCR	"Did the KCR government send details to every ...	NaN
KCR	Despite the entire country facing the impact o...	NaN
KCR	"Even before taking the oath for the third tim...	NaN
KCR	#KCR, the fraud who imposed 95% reservations, ...	NaN
KCR	The Chief Minister is seated in Kurchi, but Re...	NaN
KCR	"Then, there was a protest against unemploymen...	NaN
KCR	"Why does KTR promise victories on a particula...	NaN
KCR	The journalists who opposed KCR are now saying...	NaN
KCR	A talented leader like KCR is not found anywhe...	NaN
KCR	Ex #BRS govt led by #KCR misused tax payers m...	NaN
KCR	"Why are you imposing taxes on the poor people...	NaN
KCR	"Despite accusing #KCR of corruption, the Cong...	NaN
KCR	"Whether in power or not, individuals who exte...	NaN
KCR	"When a person has value, it is not known at t...	NaN
KCR	"Jagan and KCR dine together, but only exchang...	NaN
KCR	"If Y.S. Rajasekhara Reddy had initiated the i...	NaN
KCR	#KCR's Land Cruiser story said by CM #RevanthR...	NaN
KCR	Under the leadership of Telanganas first CM #...	NaN
KCR	No it's not the amount of investment coming in...	NaN
KCR	"No matter how many criticisms are made, the a...	NaN
KCR	"The great leader KCR, who won the hearts of t...	NaN
KCR	#KCR garu has created two additional assets - ...	NaN
KCR	If you have eyes once see clearly & u have ton...	NaN
KCR	"KCR's value hasn't been recognized for many d...	NaN
KCR	Let's make Telangana pink again.What matters ...	NaN
KCR	Vijay Shanti satires on KCR!.. He will turn th...	NaN
KCR	Under the Leadership of Sri #KCR Garu, #Telang...	NaN
KCR	All good done by the Honble former #KCR sir w...	NaN
KCR	"In the leadership of KCR, Telangana is the on...	NaN
KCR	"BRS Party has demanded about national highway...	NaN
KCR	All big businesses were here in #Telangana on ...	NaN
KCR	Agreed, but it is all for self-promotion. What...	NaN
KCR	Current Thief #KCR81,516 is the number of scam...	NaN
NaN	NaN	NaN
NaN	NaN	NaN
NaN	NaN	NaN
NaN	NaN	NaN
NaN	NaN	NaN

In [12]: df_RevanthReddy

Out[12]:

Name	Tweet
Revanth Reddy	"What are your thoughts on Revanth Reddy's pol...
Revanth Reddy	"Looks like Revanth Reddy is gaining significa...

Name	Tweet
Revanth Reddy	"Revanth Reddy's campaign seems to be resonat...
Revanth Reddy	Defeating KCR in Kamareddy is not everyone's c...
Revanth Reddy	The hot seat in Telangana is Kodangal. I am Co...
Revanth Reddy	Is #TCongress going to election's without Kary...
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Revanth Reddy	#WelcomePractice introduced by #NewTelanganaCM...
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Revanth Reddy	Telangana was a dream: the dream of the poor, ...
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Revanth Reddy	#BJP #trs #BRS #CongressMuktBharat #congress ?...
Revanth Reddy	This time farmer government#trs#hattrick
Revanth Reddy	#Congress leader #RahulGandhi says #TRS has ch...
Revanth Reddy	It's not #BJP #KCR but #Congress #TRS #AIMIM -...
Revanth Reddy	Traveling in a bus after many years ?? spoke t...
Revanth Reddy	Is KCR or Congress more practical?
Revanth Reddy	Hope @INCTelangana @INCIndia @BRSparty @HiHyde...
Revanth Reddy	In #Telangana one side #BJP4Telangana n other ...
Revanth Reddy	KCR has failed to effectively manage responsib...
Revanth Reddy	Is Congress Gonna Form the Government In Tela...
Revanth Reddy	#State #Congress unit #TPCC #President A #Reva...
Revanth Reddy	I am sorry @Swamy39 ji, former @INCIndia pres...
Revanth reddy	"We don't want a Telangana of doors but rather...
Revanth reddy	BRS leaders seen dominating the ruling Congres...
Revanth reddy	"Tomorrow, let's come together in large number...
Revanth reddy	To Chief Minister Siddaramaiah, The thief who ...
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Name	Tweet
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Revanth reddy	Revanth's call for Etala Rajendra !! to join C...
Revanth reddy	Revanth Reddy: Accusing Chief Minister KCR of ...
Revanth reddy	"CM Revanth Reddy responded to the ?1 lakh aid...
Revanth reddy	Our CM Revanth Reddy is removing powerful offi...
NaN	NaN
NaN	NaN
NaN	NaN
NaN	NaN
NaN	NaN
NaN	NaN
	NaN

In [38]:
```python
import pandas as pd

# Reading the CSV file with a specified encoding
df_Kcr = pd.read_csv('C:\\Users\\nikitha deshmukh\\OneDrive\\Desktop\\excel\\KCR.csv', index_col=0, encoding='latin1')

# Dropping rows with all NaN values
df_Kcr_cleaned = df_Kcr.dropna(how='all')

# Display the cleaned DataFrame
print(df_Kcr_cleaned)
```

	TWEET	Unnamed: 2
NAME		
KCR	BJP leader Konda Vishweshwar Reddy acknowledge...	NaN
KCR	Just before the assembly elections, #KCR cover...	NaN
KCR	"kcr transformed TRS into BRS, that's why he h...	NaN
KCR	"Kcr has done a lot of injustice."	NaN
KCR	Singareni Elections: Congress affiliated INTUC...	NaN
KCR	There is no doubt BRS Chief #KCR undoubtedly s...	NaN
KCR	"Did the KCR government send details to every ...	NaN
KCR	Despite the entire country facing the impact o...	NaN
KCR	"Even before taking the oath for the third tim...	NaN
KCR	#KCR, the fraud who imposed 95% reservations, ...	NaN
KCR	The Chief Minister is seated in Kurchi, but Re...	NaN
KCR	"Then, there was a protest against unemploymen...	NaN
KCR	"Why does KTR promise victories on a particula...	NaN
KCR	The journalists who opposed KCR are now saying...	NaN
KCR	A talented leader like KCR is not found anywhe...	NaN
KCR	Ex #BRS govt led by #KCR misused tax payers m...	NaN
KCR	"Why are you imposing taxes on the poor people...	NaN
KCR	"Despite accusing #KCR of corruption, the Cong...	NaN
KCR	"Whether in power or not, individuals who exte...	NaN
KCR	"When a person has value, it is not known at t...	NaN
KCR	"Jagan and KCR dine together, but only exchang...	NaN
KCR	"If Y.S. Rajasekhara Reddy had initiated the i...	NaN
KCR	#KCR's Land Cruiser story said by CM #RevanthR...	NaN
KCR	Under the leadership of Telanganas first CM #...	NaN
KCR	No it's not the amount of investment coming in...	NaN
KCR	"No matter how many criticisms are made, the a...	NaN
KCR	"The great leader KCR, who won the hearts of t...	NaN
KCR	#KCR garu has created two additional assets - ...	NaN
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KCR	"KCR's value hasn't been recognized for many d...	NaN
KCR	Let's make Telangana pink again.What matters ...	NaN
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KCR	Under the Leadership of Sri #KCR Garu, #Telang...	NaN
KCR	All good done by the Honble former #KCR sir w...	NaN
KCR	"In the leadership of KCR, Telangana is the on...	NaN
KCR	"BRS Party has demanded about national highway...	NaN
KCR	All big businesses were here in #Telangana on ...	NaN
KCR	Agreed, but it is all for self-promotion. What...	NaN
KCR	Current Thief #KCR81,516 is the number of scam...	NaN

In [39]:
```
# Drop the 'Unnamed: 2' column
df_Kcr_cleaned = df_Kcr.drop(columns=['Unnamed: 2'])

# Display the DataFrame without the 'Unnamed: 2' column
print(df_Kcr_cleaned)
```

NAME	TWEET
KCR	BJP leader Konda Vishweshwar Reddy acknowledge...
KCR	Just before the assembly elections, #KCR cover...
KCR	"kcr transformed TRS into BRS, that's why he h...
KCR	"Kcr has done a lot of injustice."
KCR	Singareni Elections: Congress affiliated INTUC...
KCR	There is no doubt BRS Chief #KCR undoubtedly s...
KCR	"Did the KCR government send details to every ...
KCR	Despite the entire country facing the impact o...
KCR	"Even before taking the oath for the third tim...
KCR	#KCR, the fraud who imposed 95% reservations, ...
KCR	The Chief Minister is seated in Kurchi, but Re...
KCR	"Then, there was a protest against unemploymen...
KCR	"Why does KTR promise victories on a particula...
KCR	The journalists who opposed KCR are now saying...
KCR	A talented leader like KCR is not found anywhe...
KCR	Ex #BRS govt led by #KCR misused tax payers m...
KCR	"Why are you imposing taxes on the poor people...
KCR	"Despite accusing #KCR of corruption, the Cong...
KCR	"Whether in power or not, individuals who exte...
KCR	"When a person has value, it is not known at t...
KCR	"Jagan and KCR dine together, but only exchang...
KCR	"If Y.S. Rajasekhara Reddy had initiated the i...
KCR	#KCR's Land Cruiser story said by CM #RevanthR...
KCR	Under the leadership of Telanganas first CM #...
KCR	No it's not the amount of investment coming in...
KCR	"No matter how many criticisms are made, the a...
KCR	"The great leader KCR, who won the hearts of t...
KCR	#KCR garu has created two additional assets - ...
KCR	If you have eyes once see clearly & u have ton...
KCR	"KCR's value hasn't been recognized for many d...
KCR	Let's make Telangana pink again.What matters ...
KCR	Vijay Shanti satires on KCR!.. He will turn th...
KCR	Under the Leadership of Sri #KCR Garu, #Telang...
KCR	All good done by the Honble former #KCR sir w...
KCR	"In the leadership of KCR, Telangana is the on...
KCR	"BRS Party has demanded about national highway...
KCR	All big businesses were here in #Telangana on ...
KCR	Agreed, but it is all for self-promotion. What...
KCR	Current Thief #KCR81,516 is the number of scam...
NaN	NaN
NaN	NaN
NaN	NaN
NaN	NaN
NaN	NaN

In [40]:
```python
# Drop the 'Unnamed: 2' column in place
df_Kcr.drop(columns=['Unnamed: 2'], inplace=True)


# Display the modified DataFrame
print(df_Kcr)
```

NAME	TWEET
KCR	BJP leader Konda Vishweshwar Reddy acknowledge...
KCR	Just before the assembly elections, #KCR cover...
KCR	"kcr transformed TRS into BRS, that's why he h...
KCR	"Kcr has done a lot of injustice."
KCR	Singareni Elections: Congress affiliated INTUC...
KCR	There is no doubt BRS Chief #KCR undoubtedly s...
KCR	"Did the KCR government send details to every ...
KCR	Despite the entire country facing the impact o...
KCR	"Even before taking the oath for the third tim...
KCR	#KCR, the fraud who imposed 95% reservations, ...
KCR	The Chief Minister is seated in Kurchi, but Re...
KCR	"Then, there was a protest against unemploymen...
KCR	"Why does KTR promise victories on a particula...
KCR	The journalists who opposed KCR are now saying...
KCR	A talented leader like KCR is not found anywhe...
KCR	Ex #BRS govt led by #KCR misused tax payers m...
KCR	"Why are you imposing taxes on the poor people...
KCR	"Despite accusing #KCR of corruption, the Cong...
KCR	"Whether in power or not, individuals who exte...
KCR	"When a person has value, it is not known at t...
KCR	"Jagan and KCR dine together, but only exchang...
KCR	"If Y.S. Rajasekhara Reddy had initiated the i...
KCR	#KCR's Land Cruiser story said by CM #RevanthR...
KCR	Under the leadership of Telanganas first CM #...
KCR	No it's not the amount of investment coming in...
KCR	"No matter how many criticisms are made, the a...
KCR	"The great leader KCR, who won the hearts of t...
KCR	#KCR garu has created two additional assets - ...
KCR	If you have eyes once see clearly & u have ton...
KCR	"KCR's value hasn't been recognized for many d...
KCR	Let's make Telangana pink again.What matters ...
KCR	Vijay Shanti satires on KCR!.. He will turn th...
KCR	Under the Leadership of Sri #KCR Garu, #Telang...
KCR	All good done by the Honble former #KCR sir w...
KCR	"In the leadership of KCR, Telangana is the on...
KCR	"BRS Party has demanded about national highway...
KCR	All big businesses were here in #Telangana on ...
KCR	Agreed, but it is all for self-promotion. What...
KCR	Current Thief #KCR81,516 is the number of scam...
NaN	NaN
NaN	NaN
NaN	NaN
NaN	NaN
NaN	NaN

In [41]:
```python
# Drop rows where 'TWEET' column has NaN values
df_Kcr_cleaned = df_Kcr.dropna(subset=['TWEET'])

# Display the DataFrame without rows with NaN values in 'TWEET'
print(df_Kcr_cleaned)
```

```
                            TWEET
NAME
KCR   BJP leader Konda Vishweshwar Reddy acknowledge...
KCR   Just before the assembly elections, #KCR cover...
KCR   "kcr transformed TRS into BRS, that's why he h...
KCR              "Kcr has done a lot of injustice."
KCR   Singareni Elections: Congress affiliated INTUC...
KCR   There is no doubt BRS Chief #KCR undoubtedly s...
KCR   "Did the KCR government send details to every ...
KCR   Despite the entire country facing the impact o...
KCR   "Even before taking the oath for the third tim...
KCR   #KCR, the fraud who imposed 95% reservations, ...
KCR   The Chief Minister is seated in Kurchi, but Re...
KCR   "Then, there was a protest against unemploymen...
KCR   "Why does KTR promise victories on a particula...
KCR   The journalists who opposed KCR are now saying...
KCR   A talented leader like KCR is not found anywhe...
KCR   Ex #BRS govt led by #KCR misused tax payers m...
KCR   "Why are you imposing taxes on the poor people...
KCR   "Despite accusing #KCR of corruption, the Cong...
KCR   "Whether in power or not, individuals who exte...
KCR   "When a person has value, it is not known at t...
KCR   "Jagan and KCR dine together, but only exchang...
KCR   "If Y.S. Rajasekhara Reddy had initiated the i...
KCR   #KCR's Land Cruiser story said by CM #RevanthR...
KCR   Under the leadership of Telanganas first CM #...
KCR   No it's not the amount of investment coming in...
KCR   "No matter how many criticisms are made, the a...
KCR   "The great leader KCR, who won the hearts of t...
KCR   #KCR garu has created two additional assets - ...
KCR   If you have eyes once see clearly & u have ton...
KCR   "KCR's value hasn't been recognized for many d...
KCR   Let's make Telangana pink  again.What matters ...
KCR   Vijay Shanti satires on KCR!.. He will turn th...
KCR   Under the Leadership of Sri #KCR Garu, #Telang...
KCR   All good done by the Honble former #KCR sir w...
KCR   "In the leadership of KCR, Telangana is the on...
KCR   "BRS Party has demanded about national highway...
KCR   All big businesses were here in #Telangana on ...
KCR   Agreed, but it is all for self-promotion. What...
KCR   Current Thief #KCR81,516 is the number of scam...
```

In [42]:
```python
# Drop rows where 'TWEET' column has NaN values in place
df_Kcr.dropna(subset=['TWEET'], inplace=True)


# Display the modified DataFrame
print(df_Kcr)
```

	TWEET
NAME	
KCR	BJP leader Konda Vishweshwar Reddy acknowledge...
KCR	Just before the assembly elections, #KCR cover...
KCR	"kcr transformed TRS into BRS, that's why he h...
KCR	"Kcr has done a lot of injustice."
KCR	Singareni Elections: Congress affiliated INTUC...
KCR	There is no doubt BRS Chief #KCR undoubtedly s...
KCR	"Did the KCR government send details to every ...
KCR	Despite the entire country facing the impact o...
KCR	"Even before taking the oath for the third tim...
KCR	#KCR, the fraud who imposed 95% reservations, ...
KCR	The Chief Minister is seated in Kurchi, but Re...
KCR	"Then, there was a protest against unemploymen...
KCR	"Why does KTR promise victories on a particula...
KCR	The journalists who opposed KCR are now saying...
KCR	A talented leader like KCR is not found anywhe...
KCR	Ex #BRS govt led by #KCR misused tax payers m...
KCR	"Why are you imposing taxes on the poor people...
KCR	"Despite accusing #KCR of corruption, the Cong...
KCR	"Whether in power or not, individuals who exte...
KCR	"When a person has value, it is not known at t...
KCR	"Jagan and KCR dine together, but only exchang...
KCR	"If Y.S. Rajasekhara Reddy had initiated the i...
KCR	#KCR's Land Cruiser story said by CM #RevanthR...
KCR	Under the leadership of Telanganas first CM #...
KCR	No it's not the amount of investment coming in...
KCR	"No matter how many criticisms are made, the a...
KCR	"The great leader KCR, who won the hearts of t...
KCR	#KCR garu has created two additional assets - ...
KCR	If you have eyes once see clearly & u have ton...
KCR	"KCR's value hasn't been recognized for many d...
KCR	Let's make Telangana pink again.What matters ...
KCR	Vijay Shanti satires on KCR!.. He will turn th...
KCR	Under the Leadership of Sri #KCR Garu, #Telang...
KCR	All good done by the Honble former #KCR sir w...
KCR	"In the leadership of KCR, Telangana is the on...
KCR	"BRS Party has demanded about national highway...
KCR	All big businesses were here in #Telangana on ...
KCR	Agreed, but it is all for self-promotion. What...
KCR	Current Thief #KCR81,516 is the number of scam...

Remove stopwords from tweets

In [66]:
```python
from sklearn.feature_extraction import text
stop = text.ENGLISH_STOP_WORDS


# for RevanthReddy tweets
df_RevanthReddy['Tweet'] = df_RevanthReddy['Tweet'].apply(lambda x: ' '.join([word for word in x.split() if word not in (stop)]))


# for Kcr tweets
df_Kcr['TWEET'] = df_Kcr['TWEET'].apply(lambda x: ' '.join([word for word in x.split() if word not in (stop)]))
```

Sentiment for RevanthReddy Tweets

Using Vader Sentiment

In [72]:
```python
tokenizer = AutoTokenizer.from_pretrained('nlptown/bert-base-multilingual-uncased-sentiment')


model = AutoModelForSequenceClassification.from_pretrained('nlptown/bert-base-multilingual-uncased-sentiment')
```

```python
def sentiment_score(review):
    tokens = tokenizer.encode(review, return_tensors='pt')
    result = model(tokens)
    return int(torch.argmax(result.logits))+1
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[72], line 1
----> 1 tokenizer = AutoTokenizer.from_pretrained('nlptown/bert-base-multilingual-uncased-sentiment')
      3 model = AutoModelForSequenceClassification.from_pretrained('nlptown/bert-base-multilingual-uncased-sentiment')
      5 def sentiment_score(review):

NameError: name 'AutoTokenizer' is not defined
```

In [25]:
```python
pip install transformers
```

```
Requirement already satisfied: transformers in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (4.32.1)
Requirement already satisfied: filelock in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (3.9.0)
Requirement already satisfied: huggingface-hub<1.0,>=0.15.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (0.15.1)
Requirement already satisfied: numpy>=1.17 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (1.24.3)
Requirement already satisfied: packaging>=20.0 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (23.1)
Requirement already satisfied: pyyaml>=5.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (6.0)
Requirement already satisfied: regex!=2019.12.17 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (2022.7.9)
Requirement already satisfied: requests in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (2.31.0)
Requirement already satisfied: tokenizers!=0.11.3,<0.14,>=0.11.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (0.13.2)
Requirement already satisfied: safetensors>=0.3.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (0.3.2)
Requirement already satisfied: tqdm>=4.27 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (4.65.0)
Requirement already satisfied: fsspec in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from huggingface-hub<1.0,>=0.15.1->transformers) (2023.4.0)
Requirement already satisfied: typing-extensions>=3.7.4.3 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from huggingface-hub<1.0,>=0.15.1->transformers) (4.7.1)
Requirement already satisfied: colorama in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from tqdm>=4.27->transformers) (0.4.6)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from requests->transformers) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from requests->transformers) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from requests->transformers) (1.26.16)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from requests->transformers) (2023.7.22)
Note: you may need to restart the kernel to use updated packages.
```

In [17]:
```python
from transformers import AutoTokenizer, AutoModelForSequenceClassification


tokenizer = AutoTokenizer.from_pretrained('nlptown/bert-base-multilingual-uncased-sentiment')
model = AutoModelForSequenceClassification.from_pretrained('nlptown/bert-base-multilingual-uncased-sentiment')


tokenizer = AutoTokenizer.from_pretrained('nlptown/bert-base-multilingual-uncased-sentiment')


model = AutoModelForSequenceClassification.from_pretrained('nlptown/bert-base-multilingual-uncased-sentiment')

def sentiment_score(review):
    tokens = tokenizer.encode(review, return_tensors='pt')
    result = model(tokens)
    return int(torch.argmax(result.logits))+1
```

In [10]:
```python
# Drop rows with null values
df_RevanthReddy = df_RevanthReddy.dropna()
```

```
# Display the modified DataFrame
print(df_RevanthReddy)
```

NameError   Traceback (most recent call last)
Cell **In[10], line 2**
      1 # Drop rows with null values
----> 2 df_RevanthReddy = df_RevanthReddy.dropna()
      4 # Display the modified DataFrame
      5 print(df_RevanthReddy)

NameError: name 'df_RevanthReddy' is not defined

In [8]:
```
# Drop rows with null values in the 'Tweet' column
df_RevanthReddy = df_RevanthReddy.dropna(subset=['Tweet'])


# Display the modified DataFrame
print(df_RevanthReddy)
```

NameError   Traceback (most recent call last)
Cell **In[8], line 2**
      1 # Drop rows with null values in the 'Tweet' column
----> 2 df_RevanthReddy = df_RevanthReddy.dropna(subset=['Tweet'])
      4 # Display the modified DataFrame
      5 print(df_RevanthReddy)

NameError: name 'df_RevanthReddy' is not defined

In [16]:
```
df_RevanthReddy['FinalEmotion'] = df_RevanthReddy['Tweet'].apply(lambda x: sentiment_score(x))
df_RevanthReddy['FinalEmotion']=df_RevanthReddy['FinalEmotion'].apply(lambda x : 'Pos' if x==5 else ('Neg' if x==1 else 'Neu'))
df_RevanthReddy
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[16], line 1
----> 1 df_RevanthReddy['FinalEmotion'] = df_RevanthReddy['Tweet'].apply(lambda x: sentiment_score(x))
      2 df_RevanthReddy['FinalEmotion']=df_RevanthReddy['FinalEmotion'].apply(lambda x : 'Pos' if x==5 else ('Neg' if x==1 else 'Neu'))
      3 df_RevanthReddy

File ~\anaconda3\Lib\site-packages\pandas\core\series.py:4630, in Series.apply(self, func, convert_dtype, args, **kwargs)
   4520 def apply(
   4521     self,
   4522     func: AggFuncType,
   (...)
   4525     **kwargs,
   4526 ) -> DataFrame | Series:
   4527     """
   4528     Invoke function on values of Series.
   4529
   (...)
   4628     dtype: float64
   4629     """
-> 4630     return SeriesApply(self, func, convert_dtype, args, kwargs).apply()

File ~\anaconda3\Lib\site-packages\pandas\core\apply.py:1025, in SeriesApply.apply(self)
   1022     return self.apply_str()
   1024 # self.f is Callable
-> 1025 return self.apply_standard()

File ~\anaconda3\Lib\site-packages\pandas\core\apply.py:1076, in SeriesApply.apply_standard(self)
   1074     else:
   1075         values = obj.astype(object)._values
-> 1076         mapped = lib.map_infer(
   1077             values,
   1078             f,
   1079             convert=self.convert_dtype,
   1080         )
   1082 if len(mapped) and isinstance(mapped[0], ABCSeries):
   1083     # GH#43986 Need to do list(mapped) in order to get treated as nested
   1084     #  See also GH#25959 regarding EA support
   1085     return obj._constructor_expanddim(list(mapped), index=obj.index)

File ~\anaconda3\Lib\site-packages\pandas\_libs\lib.pyx:2834, in pandas._libs.lib.map_infer()

Cell In[16], line 1, in <lambda>(x)
----> 1 df_RevanthReddy['FinalEmotion'] = df_RevanthReddy['Tweet'].apply(lambda x: sentiment_score(x))
      2 df_RevanthReddy['FinalEmotion']=df_RevanthReddy['FinalEmotion'].apply(lambda x : 'Pos' if x==5 else ('Neg' if x==1 else 'Neu'))
      3 df_RevanthReddy

NameError: name 'sentiment_score' is not defined
```

In [28]:
```python
import torch
```

In [6]:
```python
# Plot counting total number of positive, negative and neutral emotions
sns.set_style("darkgrid")
plt.figure(figsize=(15,10))
ax = sns.countplot(x=df_RevanthReedy['FinalEmotion'],palette=['#808080','#00FF00',"#FF0000"])
ax.set_title('RevanthReddy\'s Personal Tweets')
plt.show()
```

```
---------------------------------------------------------------------
NameError                         Traceback (most recent call last)
Cell In[6], line 4
      2 sns.set_style("darkgrid")
      3 plt.figure(figsize=(15,10))
----> 4 ax = sns.countplot(x=df_RevanthReedy['FinalEmotion'],palette=['#808080','#00FF00',"#FF0000"])
      5 ax.set_title('RevanthReddy\'s Personal Tweets')
      6 plt.show()

NameError: name 'df_RevanthReedy' is not defined
<Figure size 1500x1000 with 0 Axes>
```

In [7]:
```
import seaborn as sns
```

In [4]:
```
import matplotlib.pyplot as plt
```

In [14]:
```
# Drop rows with null values
df_RevanthReddy = df_RevanthReddy.dropna()

# Display the modified DataFrame
print(df_RevanthReddy)
```

Name	Tweet
Revanth Reddy	"What are your thoughts on Revanth Reddy's pol...
Revanth Reddy	"Looks like Revanth Reddy is gaining significa...
Revanth Reddy	"Revanth Reddy's campaign seems to be resonati...
Revanth Reddy	Defeating KCR in Kamareddy is not everyone's c...
Revanth Reddy	The hot seat in Telangana is Kodangal. I am Co...
Revanth Reddy	Is #TCongress going to election's without Kary...
Revanth Reddy	Revanth's call for Etala Rajendra !! to join C...
Revanth Reddy	As Usual, It's Clear.. 2 #suitcases for 2 ML...
Revanth Reddy	For Gods Sake save #TCongress Sack #Revanth a...
Revanth Reddy	3 MPs exited the Lok Sabha without voting in s...
Revanth Reddy	Two master strokes by @revanth_anumula as ch...
Revanth Reddy	#TCongress campaign C convener #TeenmarMallann...
Revanth Reddy	#WelcomePractice introduced by #NewTelanganaCM...
Revanth Reddy	Team @INCTelangana filed a complaint at the Mo...
Revanth Reddy	Every Lady must do this whether it is #JSP #TD...
Revanth Reddy	Telangana Congress party president Revanth bro...
Revanth Reddy	Telangana was a dream: the dream of the poor, ...
Revanth Reddy	BC CM in #telangana #BJP always supported the ...
Revanth Reddy	#BJP #trs #BRS #CongressMuktBharat #congress ?...
Revanth Reddy	This time farmer government#trs#hattrick
Revanth Reddy	#Congress leader #RahulGandhi says #TRS has ch...
Revanth Reddy	It's not #BJP #KCR but #Congress #TRS #AIMIM -...
Revanth Reddy	Traveling in a bus after many years ?? spoke t...
Revanth Reddy	Is KCR or Congress more practical?
Revanth Reddy	Hope @INCTelangana @INCIndia @BRSparty @HiHyde...
Revanth Reddy	In #Telangana one side #BJP4Telangana n other ...
Revanth Reddy	KCR has failed to effectively manage responsib...
Revanth Reddy	Is Congress Gonna Form the Government In Tela...
Revanth Reddy	#State #Congress unit #TPCC #President A #Reva...
Revanth Reddy	I am sorry @Swamy39 ji, former @INCIndia pres...
Revanth reddy	"We don't want a Telangana of doors but rather...
Revanth reddy	BRS leaders seen dominating the ruling Congres...
Revanth reddy	"Tomorrow, let's come together in large number...
Revanth reddy	To Chief Minister Siddaramaiah, The thief who ...
Revanth reddy	Chai Wala ke saath, Chuna lagane Wala. Mile su...
Revanth reddy	@RahulGandhi your party is sinking in Telangan...
Revanth reddy	Congress means Revanth... Revanth means Congre...
Revanth reddy	Boinapalli Vinod Anna said ?? True, If BRS has...
Revanth reddy	For Gods Sake save #TCongress Sack #Revanth a...
Revanth reddy	#Revanthreddy is doing his actual duty as a BR...
Revanth reddy	Tomorrow's Vijayabheri Sabha, which is expecte...
Revanth reddy	To Chief Minister Siddaramaiah,The thief who w...
Revanth reddy	Revanth's call for Etala Rajendra !! to join C...
Revanth reddy	#RevanthReddy: 3 hours of free electricity for...
Revanth reddy	CM Revanth Reddy, who met Sonia Gandhi, will b...
Revanth reddy	Revanth's call for Etala Rajendra !! to join C...
Revanth reddy	Revanth Reddy: Accusing Chief Minister KCR of ...
Revanth reddy	"CM Revanth Reddy responded to the ?1 lakh aid...
Revanth reddy	Our CM Revanth Reddy is removing powerful offi...

In [15]:

```python
# Drop rows with null values in the 'Tweet' column
df_RevanthReddy = df_RevanthReddy.dropna(subset=['Tweet'])


# Display the modified DataFrame
print(df_RevanthReddy)
```

Name	Tweet
Revanth Reddy	"What are your thoughts on Revanth Reddy's pol...
Revanth Reddy	"Looks like Revanth Reddy is gaining significa...
Revanth Reddy	"Revanth Reddy's campaign seems to be resonati...
Revanth Reddy	Defeating KCR in Kamareddy is not everyone's c...
Revanth Reddy	The hot seat in Telangana is Kodangal. I am Co...
Revanth Reddy	Is #TCongress going to election's without Kary...
Revanth Reddy	Revanth's call for Etala Rajendra !! to join C...
Revanth Reddy	As Usual, It's Clear.. 2 #suitcases for 2 ML...
Revanth Reddy	For Gods Sake save #TCongress Sack #Revanth a...
Revanth Reddy	3 MPs exited the Lok Sabha without voting in s...
Revanth Reddy	Two master strokes by @revanth_anumula as ch...
Revanth Reddy	#TCongress campaign C convener #TeenmarMallann...
Revanth Reddy	#WelcomePractice introduced by #NewTelanganaCM...
Revanth Reddy	Team @INCTelangana filed a complaint at the Mo...
Revanth Reddy	Every Lady must do this whether it is #JSP #TD...
Revanth Reddy	Telangana Congress party president Revanth bro...
Revanth Reddy	Telangana was a dream: the dream of the poor, ...
Revanth Reddy	BC CM in #telangana #BJP always supported the ...
Revanth Reddy	#BJP #trs #BRS #CongressMuktBharat #congress ?...
Revanth Reddy	This time farmer government#trs#hattrick
Revanth Reddy	#Congress leader #RahulGandhi says #TRS has ch...
Revanth Reddy	It's not #BJP #KCR but #Congress #TRS #AIMIM -...
Revanth Reddy	Traveling in a bus after many years ?? spoke t...
Revanth Reddy	Is KCR or Congress more practical?
Revanth Reddy	Hope @INCTelangana @INCIndia @BRSparty @HiHyde...
Revanth Reddy	In #Telangana one side #BJP4Telangana n other ...
Revanth Reddy	KCR has failed to effectively manage responsib...
Revanth Reddy	Is Congress Gonna Form the Government In Tela...
Revanth Reddy	#State #Congress unit #TPCC #President A #Reva...
Revanth Reddy	I am sorry @Swamy39 ji, former @INCIndia pres...
Revanth reddy	"We don't want a Telangana of doors but rather...
Revanth reddy	BRS leaders seen dominating the ruling Congres...
Revanth reddy	"Tomorrow, let's come together in large number...
Revanth reddy	To Chief Minister Siddaramaiah, The thief who ...
Revanth reddy	Chai Wala ke saath, Chuna lagane Wala. Mile su...
Revanth reddy	@RahulGandhi your party is sinking in Telangan...
Revanth reddy	Congress means Revanth... Revanth means Congre...
Revanth reddy	Boinapalli Vinod Anna said ?? True, If BRS has...
Revanth reddy	For Gods Sake save #TCongress Sack #Revanth a...
Revanth reddy	#Revanthreddy is doing his actual duty as a BR...
Revanth reddy	Tomorrow's Vijayabheri Sabha, which is expecte...
Revanth reddy	To Chief Minister Siddaramaiah,The thief who w...
Revanth reddy	Revanth's call for Etala Rajendra !! to join C...
Revanth reddy	#RevanthReddy: 3 hours of free electricity for...
Revanth reddy	CM Revanth Reddy, who met Sonia Gandhi, will b...
Revanth reddy	Revanth's call for Etala Rajendra !! to join C...
Revanth reddy	Revanth Reddy: Accusing Chief Minister KCR of ...
Revanth reddy	"CM Revanth Reddy responded to the ?1 lakh aid...
Revanth reddy	Our CM Revanth Reddy is removing powerful offi...

In [19]:
```python
sns.set_style("darkgrid")
plt.figure(figsize=(15,10))
ax = sns.countplot(x=df_RevanthReddy['FinalEmotion'],palette=['#808080','#00FF00',"#FF0000"])
ax.set_title('RevanthReddy\'s Personal Tweets')
plt.show()
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
File ~\anaconda3\Lib\site-packages\pandas\core\indexes\base.py:3653, in Index.get_loc(self, key)
   3652 try:
-> 3653     return self._engine.get_loc(casted_key)
   3654 except KeyError as err:

File ~\anaconda3\Lib\site-packages\pandas\_libs\index.pyx:147, in pandas._libs.index.IndexEngine.get_loc()

File ~\anaconda3\Lib\site-packages\pandas\_libs\index.pyx:176, in pandas._libs.index.IndexEngine.get_loc()

File pandas\_libs\hashtable_class_helper.pxi:7080, in pandas._libs.hashtable.PyObjectHashTable.get_item()

File pandas\_libs\hashtable_class_helper.pxi:7088, in pandas._libs.hashtable.PyObjectHashTable.get_item()

KeyError: 'FinalEmotion'

The above exception was the direct cause of the following exception:

KeyError                                  Traceback (most recent call last)
Cell In[19], line 3
      1 sns.set_style("darkgrid")
      2 plt.figure(figsize=(15,10))
----> 3 ax = sns.countplot(x=df_RevanthReddy['FinalEmotion'],palette=['#808080','#00FF00',"#FF0000"])
      4 ax.set_title('RevanthReddy\'s Personal Tweets')
      5 plt.show()

File ~\anaconda3\Lib\site-packages\pandas\core\frame.py:3761, in DataFrame.__getitem__(self, key)
   3759 if self.columns.nlevels > 1:
   3760     return self._getitem_multilevel(key)
-> 3761 indexer = self.columns.get_loc(key)
   3762 if is_integer(indexer):
   3763     indexer = [indexer]

File ~\anaconda3\Lib\site-packages\pandas\core\indexes\base.py:3655, in Index.get_loc(self, key)
   3653     return self._engine.get_loc(casted_key)
   3654 except KeyError as err:
-> 3655     raise KeyError(key) from err
   3656 except TypeError:
   3657     # If we have a listlike key, _check_indexing_error will raise
   3658     #  InvalidIndexError. Otherwise we fall through and re-raise
   3659     #  the TypeError.
   3660     self._check_indexing_error(key)

KeyError: 'FinalEmotion'
<Figure size 1500x1000 with 0 Axes>
```

In [22]:
```
df_RevanthReddy['FinalEmotion'] = df_RevanthReddy['Tweet'].apply(lambda x: sentiment_score(x))
df_RevanthReddy['FinalEmotion']=df_RevanthReddy['FinalEmotion'].apply(lambda x : 'Pos' if x==5 else ('Neg' if x==1 else 'Neu'))
df_RevanthReddy
```

Out[22]:

Name	Tweet	FinalEmotion
Revanth Reddy	"What are your thoughts on Revanth Reddy's pol...	Neg
Revanth Reddy	"Looks like Revanth Reddy is gaining significa...	Neu
Revanth Reddy	"Revanth Reddy's campaign seems to be resonati...	Neu
Revanth Reddy	Defeating KCR in Kamareddy is not everyone's c...	Neg
Revanth Reddy	The hot seat in Telangana is Kodangal. I am Co...	Pos
Revanth Reddy	Is #TCongress going to election's without Kary...	Neg

Name	Tweet	FinalEmotion
Revanth Reddy	Revanth's call for Etala Rajendra !! to jo...	Pos
Revanth Reddy	As Usual, It's Clear.. 2 #suitcases for 2 ML...	Neu
Revanth Reddy	For Gods Sake save #TCongress Sack #Revanth a...	Neg
Revanth Reddy	3 MPs exited the Lok Sabha without voting in s...	Neg
Revanth Reddy	Two master strokes by @revanth_anumula as ch...	Neg
Revanth Reddy	#TCongress campaign C convener #TeenmarMallann...	Neg
Revanth Reddy	#WelcomePractice introduced by #NewTelanganaCM...	Neg
Revanth Reddy	Team @INCTelangana filed a complaint at the Mo...	Neg
Revanth Reddy	Every Lady must do this whether it is #JSP #TD...	Pos
Revanth Reddy	Telangana Congress party president Revanth bro...	Neg
Revanth Reddy	Telangana was a dream: the dream of the poor, ...	Pos
Revanth Reddy	BC CM in #telangana #BJP always supported the ...	Pos
Revanth Reddy	#BJP #trs #BRS #CongressMuktBharat #congress ?...	Neg
Revanth Reddy	This time farmer government#trs#hattrick	Neg
Revanth Reddy	#Congress leader #RahulGandhi says #TRS has ch...	Neg
Revanth Reddy	It's not #BJP #KCR but #Congress #TRS #AIMIM -...	Neg
Revanth Reddy	Traveling in a bus after many years ?? spoke t...	Neu
Revanth Reddy	Is KCR or Congress more practical?	Neu
Revanth Reddy	Hope @INCTelangana @INCIndia @BRSparty @HiHyde...	Pos
Revanth Reddy	In #Telangana one side #BJP4Telangana n other ...	Neg
Revanth Reddy	KCR has failed to effectively manage responsib...	Neg
Revanth Reddy	Is Congress Gonna Form the Government In Tela...	Neg
Revanth Reddy	#State #Congress unit #TPCC #President A #Reva...	Neg
Revanth Reddy	I am sorry @Swamy39 ji, former @INCIndia pres...	Neg
Revanth reddy	"We don't want a Telangana of doors but rather...	Neu
Revanth reddy	BRS leaders seen dominating the ruling Congres...	Neg
Revanth reddy	"Tomorrow, let's come together in large number...	Pos
Revanth reddy	To Chief Minister Siddaramaiah, The thief who ...	Neg
Revanth reddy	Chai Wala ke saath, Chuna lagane Wala. Mile su...	Neg
Revanth reddy	@RahulGandhi your party is sinking in Telangan...	Neg
Revanth reddy	Congress means Revanth... Revanth means Congre...	Neg
Revanth reddy	Boinapalli Vinod Anna said ?? True, If BRS has...	Neg
Revanth reddy	For Gods Sake save #TCongress Sack #Revanth a...	Neg
Revanth reddy	#Revanthreddy is doing his actual duty as a BR...	Neu
Revanth reddy	Tomorrow's Vijayabheri Sabha, which is expecte...	Pos
Revanth reddy	To Chief Minister Siddaramaiah,The thief who w...	Neg
Revanth reddy	Revanth's call for Etala Rajendra !! to join C...	Pos
Revanth reddy	#RevanthReddy: 3 hours of free electricity for...	Pos
Revanth reddy	CM Revanth Reddy, who met Sonia Gandhi, will b...	Pos
Revanth reddy	Revanth's call for Etala Rajendra !! to join C...	Pos
Revanth reddy	Revanth Reddy: Accusing Chief Minister KCR of ...	Neg

| **Revanth reddy** | "CM Revanth Reddy responded to the ?1 lakh aid... | Neg |
| **Revanth reddy** | Our CM Revanth Reddy is removing powerful offi... | Pos |

In [21]:
```python
import torch
```

In [23]:
```python
sns.set_style("darkgrid")
plt.figure(figsize=(15,10))
ax = sns.countplot(x=df_RevanthReddy['FinalEmotion'],palette=['#808080','#00FF00',"#FF0000"])
ax.set_title('RevanthReddy\'s Personal Tweets')
plt.show()
```

RevanthReddy's Personal Tweets
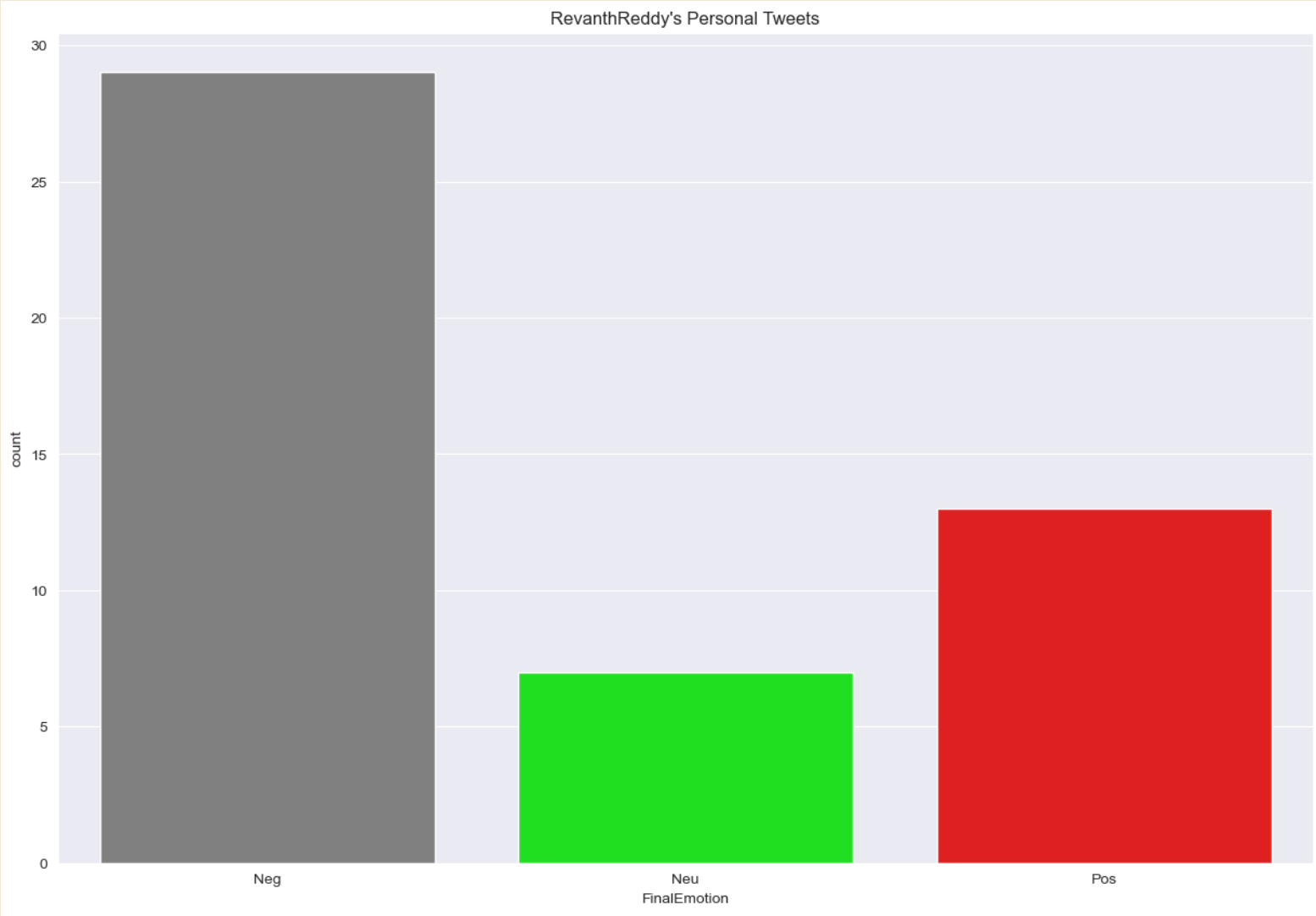
In [29]:
```python
pip install pandas nltk
```

Requirement already satisfied: pandas in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (2.0.3)Note: you may need to restart the kernel to use updated packages.

Requirement already satisfied: nltk in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (3.8.1)
Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from pandas) (2023.3.post1)
Requirement already satisfied: tzdata>=2022.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from pandas) (2023.3)
Requirement already satisfied: numpy>=1.21.0 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from pandas) (1.24.3)
Requirement already satisfied: click in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk) (8.0.4)
Requirement already satisfied: joblib in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk) (1.2.0)
Requirement already satisfied: regex>=2021.8.3 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk) (2022.7.9)
Requirement already satisfied: tqdm in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from nltk) (4.65.0)
Requirement already satisfied: six>=1.5 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from python-dateutil>=2.8.2->pandas) (1.16.0)
Requirement already satisfied: colorama in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from click->nltk) (0.4.6)

In [30]:
```python
import pandas as pd
from nltk.sentiment import SentimentIntensityAnalyzer

# Assuming you have already loaded the DataFrame df_RevanthReddy
```

```python
# Create an instance of SentimentIntensityAnalyzer
analyser = SentimentIntensityAnalyzer()

# Define functions for positive, negative, and neutral scores
def pos(tweet):
    SentDict = analyser.polarity_scores(tweet)
    return SentDict['pos']

def neg(tweet):
    SentDict = analyser.polarity_scores(tweet)
    return SentDict['neg']

def neu(tweet):
    SentDict = analyser.polarity_scores(tweet)
    return SentDict['neu']

# Applying sentiment analysis on tweets
df_RevanthReddy['pos'] = df_RevanthReddy['Tweet'].apply(lambda x: pos(x))
df_RevanthReddy['neg'] = df_RevanthReddy['Tweet'].apply(lambda x: neg(x))
df_RevanthReddy['neu'] = df_RevanthReddy['Tweet'].apply(lambda x: neu(x))

# Calculate the final emotion based on maximum score
ggez = []
for i in range(len(df_RevanthReddy)):
    ggez.append(max(df_RevanthReddy['pos'][i], df_RevanthReddy['neu'][i], df_RevanthReddy['neg'][i]))

df_RevanthReddy['FinalEmotion'] = ggez

# Map the final emotion to 'positive', 'negative', or 'neutral'
for i in range(len(df_RevanthReddy)):
    if df_RevanthReddy['FinalEmotion'][i] == df_RevanthReddy['pos'][i]:
        df_RevanthReddy['FinalEmotion'][i] = 'positive'
    elif df_RevanthReddy['FinalEmotion'][i] == df_RevanthReddy['neg'][i]:
        df_RevanthReddy['FinalEmotion'][i] = 'negative'
    elif df_RevanthReddy['FinalEmotion'][i] == df_RevanthReddy['neu'][i]:
        df_RevanthReddy['FinalEmotion'][i] = 'neutral'

df_RevanthReddy
```

C:\Users\nikitha deshmukh\AppData\Local\Temp\ipykernel_36820\2053229345.py:41: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  df_RevanthReddy['FinalEmotion'][i] = 'neutral'

Out[30]:

Name	Tweet	pos	neg	neu	FinalEmotion
Revanth Reddy	"What are your thoughts on Revanth Reddy's pol...	0.000	0.000	1.000	neutral
Revanth Reddy	"Looks like Revanth Reddy is gaining significa...	0.593	0.000	0.407	positive
Revanth Reddy	"Revanth Reddy's campaign seems to be resonati...	0.160	0.000	0.840	neutral
Revanth Reddy	Defeating KCR in Kamareddy is not everyone's c...	0.000	0.140	0.860	neutral
Revanth Reddy	The hot seat in Telangana is Kodangal. I am Co...	0.255	0.000	0.745	neutral
Revanth Reddy	Is #TCongress going to election's without Kary...	0.000	0.000	1.000	neutral

Revanth Reddy Name	Tweet	pos	neg	neu	FinalEmotion
Revanth Reddy	Revanth's call for Etala Rajendra !! to join C...	0.258	0.000	0.742	neutral
Revanth Reddy	As Usual, It's Clear.. 2 #suitcases for 2 ML...	0.000	0.000	1.000	neutral
Revanth Reddy	For Gods Sake save #TCongress Sack #Revanth a...	0.256	0.000	0.744	neutral
Revanth Reddy	3 MPs exited the Lok Sabha without voting in s...	0.144	0.068	0.788	neutral
Revanth Reddy	Two master strokes by @revanth_anumula as ch...	0.102	0.142	0.757	neutral
Revanth Reddy	#TCongress campaign C convener #TeenmarMallann...	0.174	0.145	0.681	neutral
Revanth Reddy	#WelcomePractice introduced by #NewTelanganaCM...	0.159	0.034	0.807	neutral
Revanth Reddy	Team @INCTelangana filed a complaint at the Mo...	0.183	0.091	0.726	neutral
Revanth Reddy	Every Lady must do this whether it is #JSP #TD...	0.065	0.000	0.935	neutral
Revanth Reddy	Telangana Congress party president Revanth bro...	0.191	0.075	0.733	neutral
Revanth Reddy	Telangana was a dream: the dream of the poor, ...	0.247	0.099	0.654	neutral
Revanth Reddy	BC CM in #telangana #BJP always supported the ...	0.096	0.113	0.792	neutral
Revanth Reddy	#BJP #trs #BRS #CongressMuktBharat #congress ?...	0.000	0.000	1.000	neutral
Revanth Reddy	This time farmer government#trs#hattrick	0.000	0.000	1.000	neutral
Revanth Reddy	#Congress leader #RahulGandhi says #TRS has ch...	0.000	0.000	1.000	neutral
Revanth Reddy	It's not #BJP #KCR but #Congress #TRS #AIMIM -...	0.157	0.000	0.843	neutral
Revanth Reddy	Traveling in a bus after many years ?? spoke t...	0.158	0.057	0.785	neutral
Revanth Reddy	Is KCR or Congress more practical?	0.000	0.000	1.000	neutral
Revanth Reddy	Hope @INCTelangana @INCIndia @BRSparty @HiHyde...	0.433	0.042	0.525	neutral
Revanth Reddy	In #Telangana one side #BJP4Telangana n other ...	0.136	0.050	0.814	neutral
Revanth Reddy	KCR has failed to effectively manage responsib...	0.183	0.249	0.568	neutral
Revanth Reddy	Is Congress Gonna Form the Government In Tela...	0.000	0.000	1.000	neutral
Revanth Reddy	#State #Congress unit #TPCC #President A #Reva...	0.105	0.074	0.820	neutral
Revanth Reddy	I am sorry @Swamy39 ji, former @INCIndia pres...	0.000	0.098	0.902	neutral
Revanth reddy	"We don't want a Telangana of doors but rather...	0.000	0.110	0.890	neutral
Revanth reddy	BRS leaders seen dominating the ruling Congres...	0.044	0.150	0.807	neutral
Revanth reddy	"Tomorrow, let's come together in large number...	0.000	0.000	1.000	neutral
Revanth reddy	To Chief Minister Siddaramaiah, The thief who ...	0.000	0.158	0.842	neutral
Revanth reddy	Chai Wala ke saath, Chuna lagane Wala. Mile su...	0.000	0.000	1.000	neutral
Revanth reddy	@RahulGandhi your party is sinking in Telangan...	0.231	0.000	0.769	neutral
Revanth reddy	Congress means Revanth... Revanth means Congre...	0.231	0.000	0.769	neutral
Revanth reddy	Boinapalli Vinod Anna said ?? True, If BRS has...	0.087	0.107	0.806	neutral
Revanth reddy	For Gods Sake save #TCongress Sack #Revanth a...	0.242	0.000	0.758	neutral
Revanth reddy	#Revanthreddy is doing his actual duty as a BR...	0.000	0.000	1.000	neutral
Revanth reddy	Tomorrow's Vijayabheri Sabha, which is expecte...	0.175	0.000	0.825	neutral
Revanth reddy	To Chief Minister Siddaramaiah,The thief who w...	0.146	0.114	0.740	neutral
Revanth reddy	Revanth's call for Etala Rajendra !! to join C...	0.258	0.000	0.742	neutral
Revanth reddy	#RevanthReddy: 3 hours of free electricity for...	0.355	0.000	0.645	neutral
Revanth reddy	CM Revanth Reddy, who met Sonia Gandhi, will b...	0.000	0.000	1.000	neutral
Revanth reddy	Revanth's call for Etala Rajendra !! to join C...	0.258	0.000	0.742	neutral
Revanth reddy	Revanth Reddy: Accusing Chief Minister KCR of ...	0.056	0.056	0.888	neutral

Name	Tweet	pos	neg	neu	FinalEmotion
Revanth reddy	"CM Revanth Reddy responded to the ?1 lakh we...	0.000	0.000	1.000	neutral
Revanth Reddy	Our CM Revanth Reddy is removing powerful offi...	0.344	0.000	0.656	neutral

In [31]:
```python
plt.figure(figsize=(12,10))
ax = sns.countplot(x=df_RevanthReddy['FinalEmotion'],palette=['#808080','#00FF00',"#FF0000"])
ax.set_title('RevanthReddy\'s Personal Tweets')
plt.show()
```
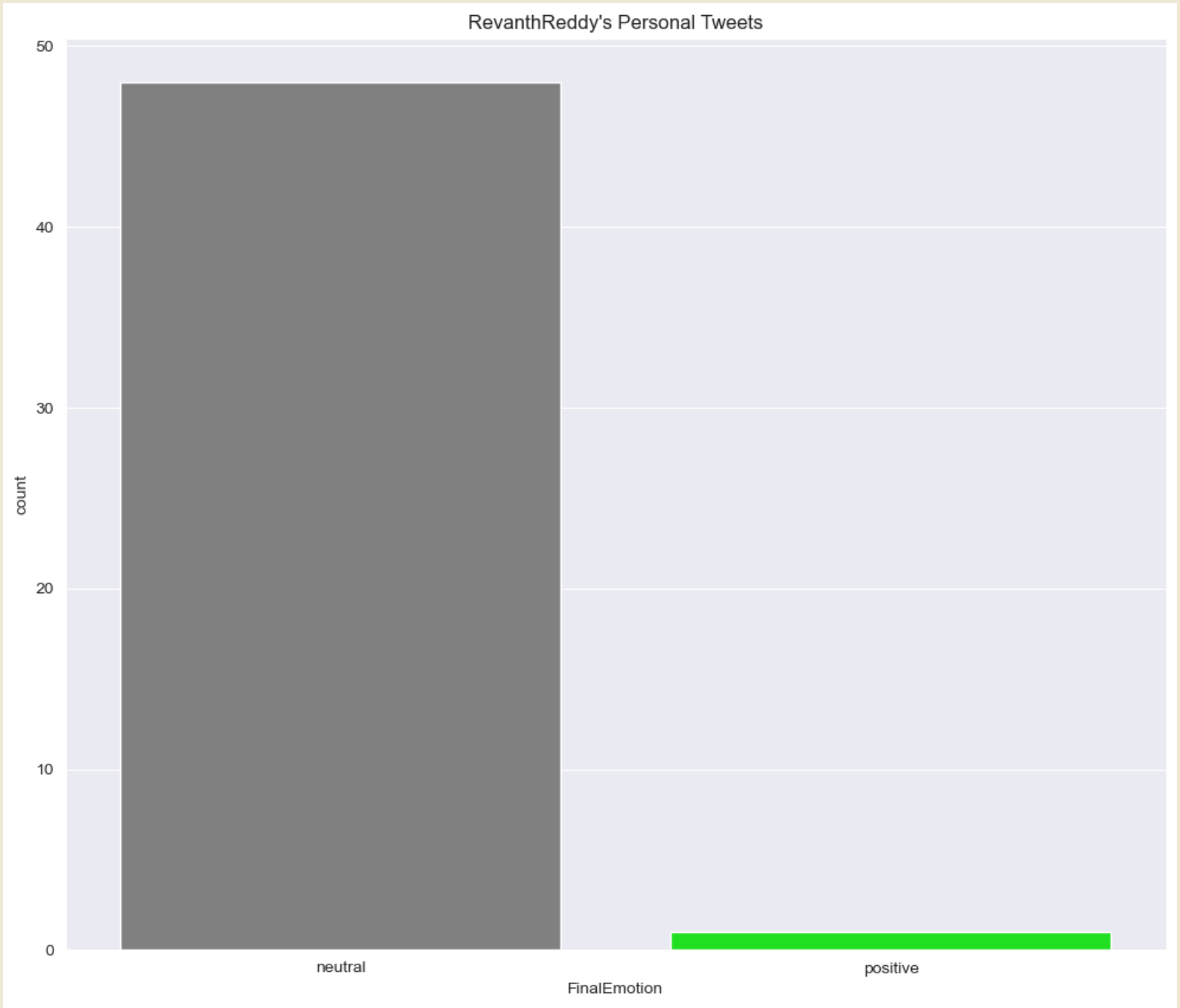

In [33]:
```python
from textblob import TextBlob

bloblist_desc = list()

twit = df_RevanthReddy['Tweet'].astype(str)
for row in twit:
    blob = TextBlob(row)
    bloblist_desc.append((row, blob.sentiment.polarity, blob.sentiment.subjectivity))

# Create a DataFrame from the list of tuples
twit_polarity_desc = pd.DataFrame(bloblist_desc, columns=['sentence', 'sentiment', 'polarity'])

# Define a function to categorize sentiment
def f(twit_polarity_desc):
    if twit_polarity_desc['sentiment'] > 0:
```

```
        val = "Positive"
    elif twit_polarity_desc['sentiment'] == 0:
        val = "Neutral"
    else:
        val = "Negative"
    return val

# Apply the function to create a new column 'Sentiment_Type'
twit_polarity_desc['Sentiment_Type'] = twit_polarity_desc.apply(f, axis=1)

# Plot the count of sentiment types
plt.figure(figsize=(10, 10))
ax = sns.countplot(x="Sentiment_Type", data=twit_polarity_desc)
ax.set_title("RevanthReddy's Personal Tweets")
plt.show()
```
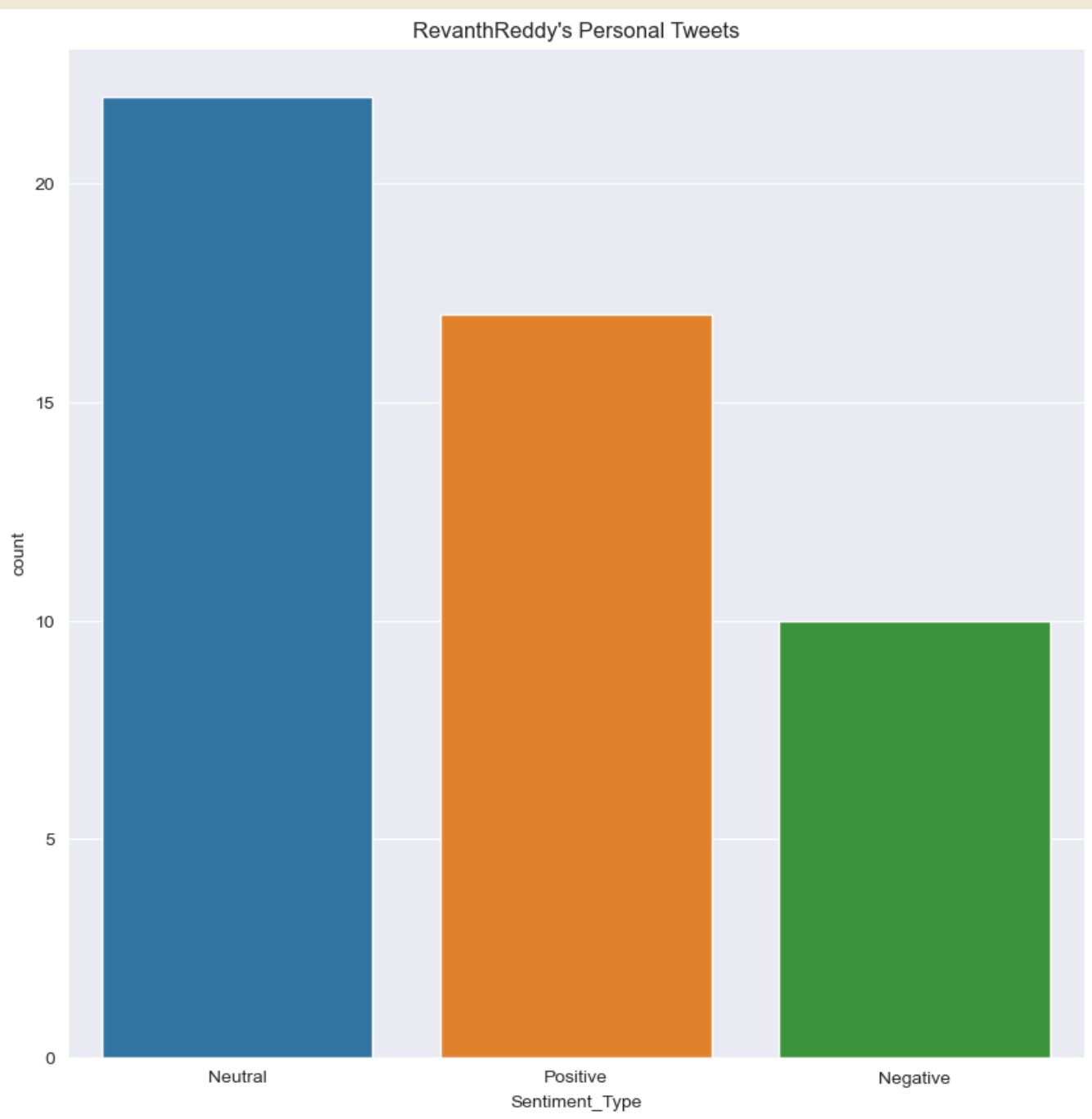

Sentiment For Kcr Tweets

Using Bert

```
In [44]: df_Kcr['FinalEmotion'] = df_Kcr['TWEET'].apply(lambda x: sentiment_score(x))
         df_Kcr['FinalEmotion']=df_Kcr['FinalEmotion'].apply(lambda x : 'Pos' if x==5 else ('Neg' if x==1 else 'Neu'))
         df_Kcr
```

Out[44]:

NAME	TWEET	FinalEmotion
KCR	BJP leader Konda Vishweshwar Reddy acknowledge...	Neu
KCR	Just before the assembly elections, #KCR cover...	Neg
KCR	"kcr transformed TRS into BRS, that's why he h...	Neu
KCR	"Kcr has done a lot of injustice."	Pos
KCR	Singareni Elections: Congress affiliated INTUC...	Neg
KCR	There is no doubt BRS Chief #KCR undoubtedly s...	Neu
KCR	"Did the KCR government send details to every ...	Neg
KCR	Despite the entire country facing the impact o...	Pos
KCR	"Even before taking the oath for the third tim...	Neg
KCR	#KCR, the fraud who imposed 95% reservations, ...	Pos
KCR	The Chief Minister is seated in Kurchi, but Re...	Neu
KCR	"Then, there was a protest against unemploymen...	Neg
KCR	"Why does KTR promise victories on a particula...	Neg
KCR	The journalists who opposed KCR are now saying...	Neg
KCR	A talented leader like KCR is not found anywhe...	Pos
KCR	Ex #BRS govt led by #KCR misused tax payers m...	Neg
KCR	"Why are you imposing taxes on the poor people...	Neg
KCR	"Despite accusing #KCR of corruption, the Cong...	Neg
KCR	"Whether in power or not, individuals who exte...	Neg
KCR	"When a person has value, it is not known at t...	Neu
KCR	"Jagan and KCR dine together, but only exchang...	Neu
KCR	"If Y.S. Rajasekhara Reddy had initiated the i...	Neu
KCR	#KCR's Land Cruiser story said by CM #RevanthR...	Neg
KCR	Under the leadership of Telanganas first CM #...	Neg
KCR	No it's not the amount of investment coming in...	Neg
KCR	"No matter how many criticisms are made, the a...	Neg
KCR	"The great leader KCR, who won the hearts of t...	Pos
KCR	#KCR garu has created two additional assets - ...	Neg
KCR	If you have eyes once see clearly & u have ton...	Neg
KCR	"KCR's value hasn't been recognized for many d...	Neu
KCR	Let's make Telangana pink again.What matters ...	Pos
KCR	Vijay Shanti satires on KCR!.. He will turn th...	Neu
KCR	Under the Leadership of Sri #KCR Garu, #Telang...	Pos
KCR	All good done by the Honble former #KCR sir w...	Pos
KCR	"In the leadership of KCR, Telangana is the on...	Pos
KCR	"BRS Party has demanded about national highway...	Neg
KCR	All big businesses were here in #Telangana on ...	Neg
KCR	Agreed, but it is all for self-promotion. What...	Neu
KCR	Current Thief #KCR81,516 is the number of scam...	Neg

```
In [45]: plt.figure(figsize=(15,10))
         ax = sns.countplot(x=df_Kcr['FinalEmotion'],palette=['#00FF00',"#FF0000",'#808080'])
         ax.set_title('Kcr\'s Personal Tweets')
         plt.show()
```

Kcr's Personal Tweets
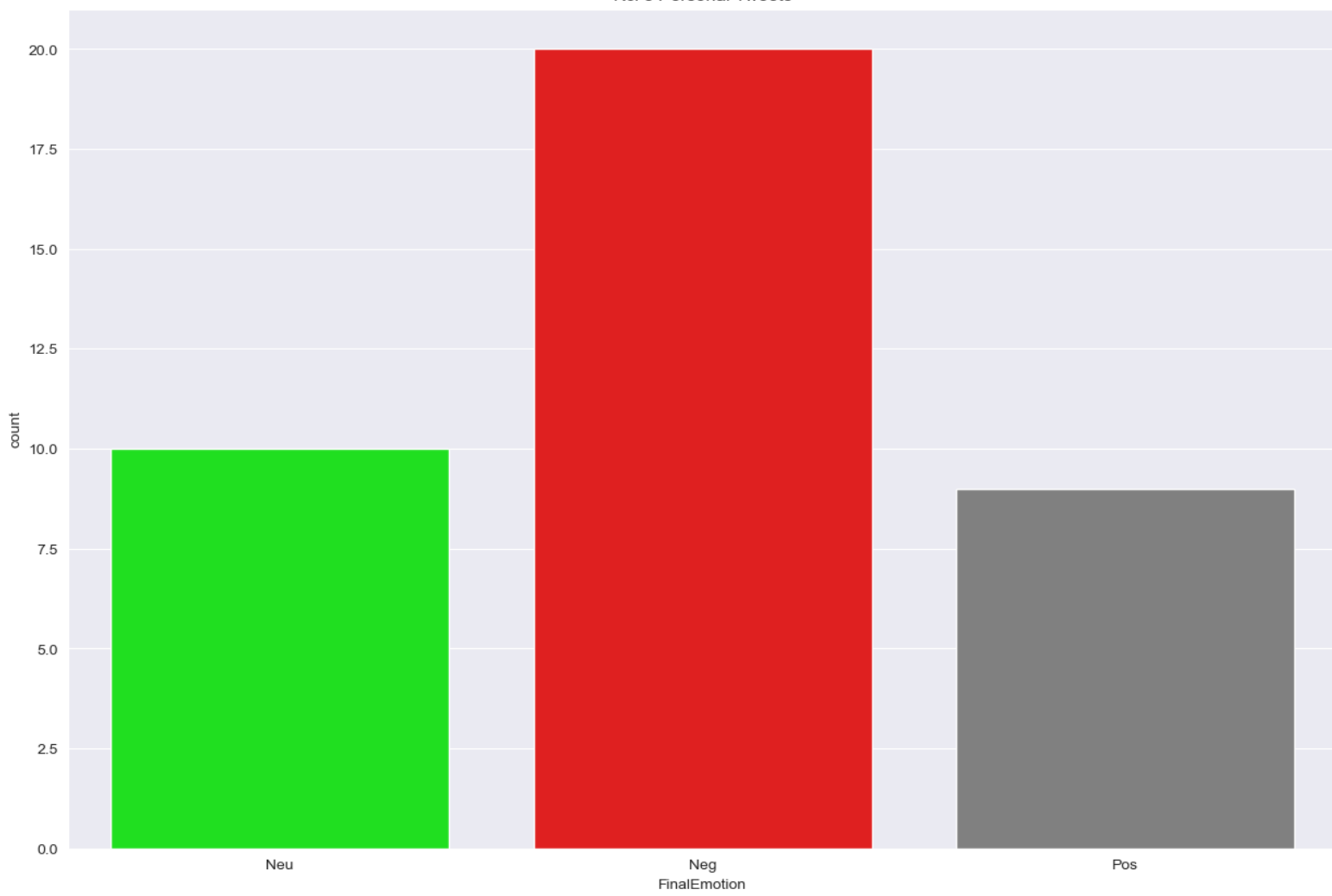
Using Vader Sentiment

In [47]:
```python
df_Kcr['pos'] = df_Kcr['TWEET'].apply(lambda x: pos(x))
df_Kcr['neg'] = df_Kcr['TWEET'].apply(lambda x: neg(x))
df_Kcr['neu'] = df_Kcr['TWEET'].apply(lambda x: neu(x))

ggez = []
for i in range(len(df_Kcr)):
    ggez.append(max(df_Kcr['pos'][i], df_Kcr['neu'][i], df_Kcr['neg'][i]))

df_Kcr['FinalEmotion'] = ggez
positive = ""
negative = ""
for i in range(len(df_Kcr)):
    if df_Kcr['FinalEmotion'][i] == df_Kcr['pos'][i]:
        df_Kcr['FinalEmotion'][i] = 'positive'
        positive = positive + df_Kcr[i]["TWEET"]
    elif df_Kcr['FinalEmotion'][i] == df_Kcr['neg'][i]:
        df_Kcr['FinalEmotion'][i] = 'negative'
    elif df_Kcr['FinalEmotion'][i] == df_Kcr['neu'][i]:
        df_Kcr['FinalEmotion'][i] = 'neutral'
```

```
C:\Users\nikitha deshmukh\AppData\Local\Temp\ipykernel_36820\1501229432.py:17: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a
-copy
  df_Kcr['FinalEmotion'][i] = 'neutral'
```

In [48]:
```python
df_Kcr['FinalEmotion'].value_counts()
```

```
Out[48]: FinalEmotion
         neutral    38
         positive    1
         Name: count, dtype: int64
```

```
In [49]: plt.figure(figsize=(12,10))
         ax = sns.countplot(x=df_Kcr['FinalEmotion'],palette=['#808080','#00FF00',"#FF0000"])
         ax.set_title('Kcr\'s Personal TWEETS')
         plt.show()
```
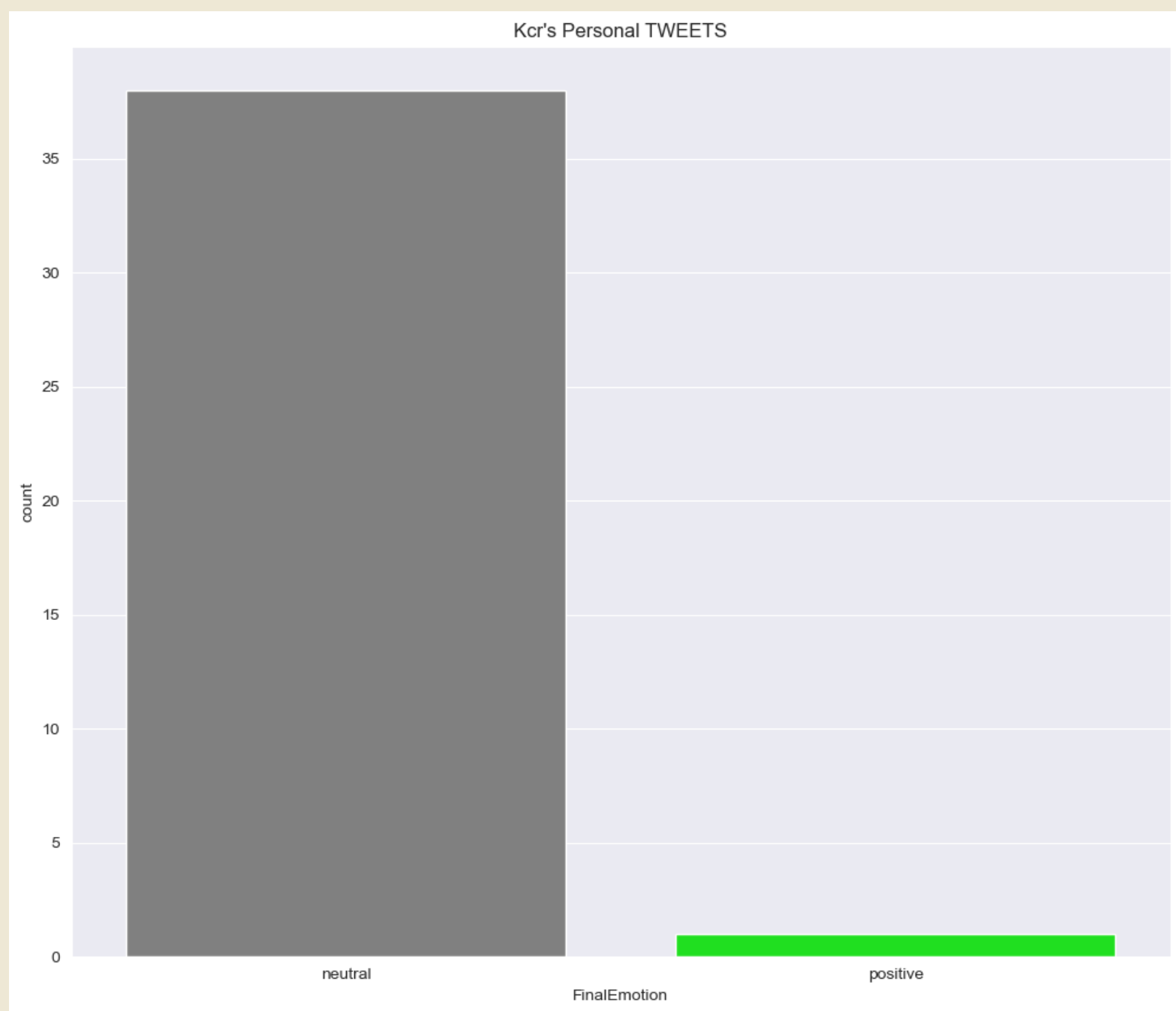

Using TextBlob

```
In [50]: bloblist_desc = list()

         twit=df_Kcr['TWEET'].astype(str)
         for row in twit:
             blob = TextBlob(row)
             bloblist_desc.append((row,blob.sentiment.polarity, blob.sentiment.subjectivity))
             twit_polarity_desc = pd.DataFrame(bloblist_desc, columns = ['sentence','sentiment','polarity'])
         def f(twit_polarity_desc):
             if twit_polarity_desc['sentiment'] > 0:
                 val = "Positive"
             elif twit_polarity_desc['sentiment'] == 0:
```

```
            val = "Neutral"
        else:
            val = "Negative"
        return val

twit_polarity_desc['Sentiment_Type'] = twit_polarity_desc.apply(f, axis=1)

plt.figure(figsize=(10,10))
ax = sns.countplot(x="Sentiment_Type", data=twit_polarity_desc)
ax.set_title('Kcr\'s Personal TWEETs')
plt.show()
```


Kcr's Personal TWEETs
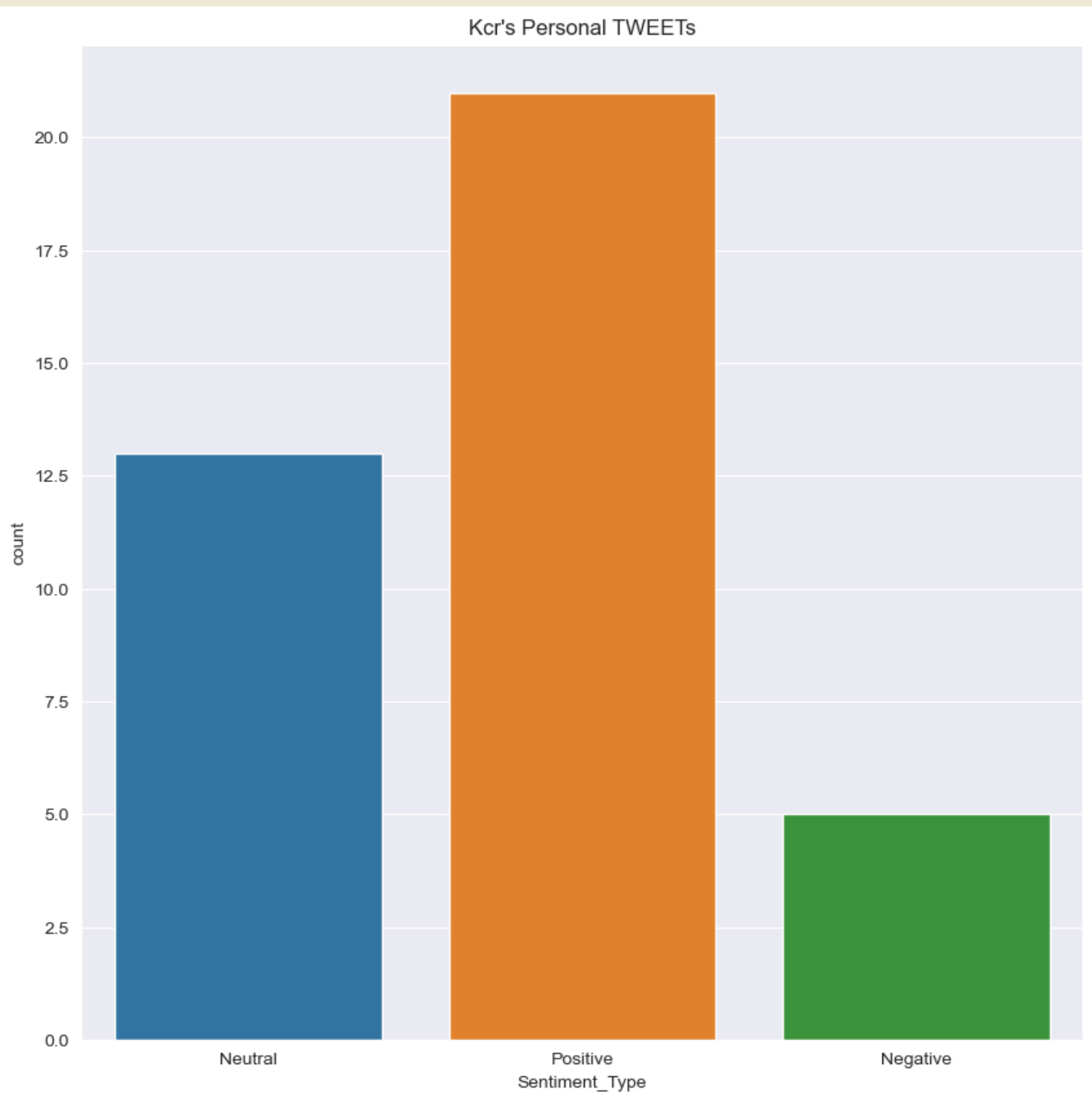
In [80]:
```
tweets = ['C:\\Users\\nikitha deshmukh\\OneDrive\\Desktop\\excel\\Combined.csv']
positive = ""
negative = ""
for i in tweets:
    blob = TextBlob(i)
    polarity = blob.sentiment.polarity
    if polarity > 0:
        positive = positive+i
    elif polarity < 0:
        negative = negative+i
```

```
print(positive)
```

```python
import pandas as pd
from textblob import TextBlob

# Assuming 'Tweet' is the column containing tweets in your CSV file
file_path = 'C:\\Users\\nikitha deshmukh\\OneDrive\\Desktop\\excel\\Combined.csv'
df = pd.read_csv(file_path, encoding='ISO-8859-1')

positive = ""
negative = ""

# Handle NaN values in 'Tweet' column
df['Tweet'] = df['Tweet'].fillna('')

for tweet in df['Tweet']:
    # Check if the tweet is not NaN (a string)
    if isinstance(tweet, str):
        blob = TextBlob(tweet)
        polarity = blob.sentiment.polarity

        if polarity > 0:
            positive += tweet + '\n'
        elif polarity < 0:
            negative += tweet + '\n'

print("Positive Tweets:")
print(positive)

print("\nNegative Tweets:")
print(negative)
```

Positive Tweets:
"Looks like Revanth Reddy is gaining significant support in the northern districts. Interesting dynamics in #TelanganaElections"
The hot seat in Telangana is Kodangal. I am Contesting from there and confidently I am winning there...He said and he did it
3 MPs exited the Lok Sabha without voting in support of the #WomenReservationBill, neither initiating nor supporting it earlier, nor doing so now.shame on #TCongress Leaders @revanth_anumula@UttamINC @KomatireddyKVR#shameless #Scamgress party
Two master strokes by @revanth_anumula as chief before elections. 1.Forcing #KCR garu to stick with sitting MLAs to captivate on anti incumbency. 2. Successfully oppossing #sharmila into #Tcongress to prevent a negative campaign from #BRS on sentiment.
#TCongress campaign C convener #TeenmarMallanna is doing damage to the party by promoting through #Qnews without any evidence that has sold tickets and fielded dummy #Congress candidates in 23 seats..! This allegation is very damaging to the party.
Every Lady must do this whether it is #JSP #TDP #YSRCP #TRS #BJP #Congress any other political parties must do this. Every Women has their right to speak independently & Question their rights for what they are individually. #JaiJanasena #JaiBharat #JaiHind
Telangana Congress party president Revanth bro ?? Changing political parties like dress change for each general elections. College Life #ABVP leader 1st-#BJP 2nd-#TRS? 3nd-#TDP? (opposite to Telangana movement and harassed Telanganapeople) 4th #Congress 5th #BJP (after 2024 elections)??
Traveling in a bus after many years ?? spoke to conductors they are not happy with the salary, government needs to find the better solution to support these TSRTC employees #tsrtc #hyderabad #bus #telangana #apsrtc #kcr #india #buses #KCR #KTR #RTC #trs #BJP #Congress #TDP #JSP
Is KCR or Congress more practical?
Hope @INCTelangana @INCIndia @BRSparty @HiHyderabad @KTRBRS #Congress hope you people will fulfill this dream of show dream to Telangana. We are gonna miss our beloved #TRS leader's
In #Telangana one side #BJP4Telangana n other side 3 family #Congress #TRS n #AIMIM ,In day time 3 family parties accused each other n in night they become one, Congress TRS offering Lolipop(Free Free Free)to Secular Hindus n ReligiousMuslim voters n AIMIM for Muslim CM n PM....
BRS leaders seen dominating the ruling Congress and Speaker, speaking more than one hour, not allowed ruling party leaders to speak. It's a big challenge to CM #RevanthReddy
"Tomorrow, let's come together in large numbers for the victory rally... Let's raise the flag of our Congress high."
Congress means Revanth... Revanth means Congress... Workers laugh at both: Komatireddy Venkat Reddy."
#RevanthReddy: 3 hours of free electricity for farmers."
Revanth Reddy: Accusing Chief Minister KCR of acquiring the assets of someone who is about to become the Chief Minister, he bought 22 new cars and disposed of them."
Our CM Revanth Reddy is removing powerful officers and making changes towards good governance!!

Negative Tweets:
As Usual, It's Clear.. 2 #suitcases for 2 MLAs #Revanthreddy is doing his actual duty as a BROKER buying #Mainampalli
#WelcomePractice introduced by #NewTelanganaCM @revanth_anumula whose #VIPconvoy travelled in regular traffic like any other citizen, respecting signals; #NoTrafficStopped #NoSiren; #RevanthReddy has said he does not want to the public @ndtv @ndtvindia #NoVIPCulture
Team @INCTelangana filed a complaint at the Moinabad police station against 12 MLAs who were sold from the #Congress party to the #TRS party.We will file a complaint with the CBI & ED as well, ready to take legal action if necessary - @revanth_anumula @BhattiCLP
It's not #BJP #KCR but #Congress #TRS #AIMIM - 3 Razakar n Corrupted parties Joined together secretly at dark night, TRS n AIMIM will join I.N.D.I.A. after #TelanganaElections2023 ,Pliz Vote #BJP4Telangana n recover #Telangana fm Family n Capitalist rule n estd Democracy there...
KCR has failed to effectively manage responsibilities in Telangana... Not worthy of questioning Prime Minister Modi. #KCRFailedTelangana
I am sorry @Swamy39 ji, former @INCIndia president Mrs #SoniaGandhi Ji is my mother.
To Chief Minister Siddaramaiah, The thief who went to jail, @revanth_anumula , where is the policy? ?? There is a storm brewing for both
Boinapalli Vinod Anna said ?? True, If BRS has done that, it's a shame. If the allegations are false, people should teach lesson to those who defame us. #RevanthReddy"
Tomorrow's Vijayabheri Sabha, which is expected to draw lakhs of attendees, will see our Congress leaders enthusiastically participating.
To Chief Minister Siddaramaiah,The thief who went to jail,@revanth_anumula Where did he get the stick to poke?A challenge for both, like a game of chess ??"

In [85]:
```python
import pandas as pd
from textblob import TextBlob
file_path = 'C:\\Users\\nikitha deshmukh\\OneDrive\\Desktop\\excel\\KCR.csv'
df = pd.read_csv(file_path, encoding='ISO-8859-1')


positive = ""
negative = ""
```

```python
# Handle NaN values in 'Tweet' column
df['TWEET'] = df['TWEET'].fillna('')
for tweet in df['TWEET']:
    # Check if the tweet is not NaN (a string)
    if isinstance(tweet, str):
        blob = TextBlob(tweet)
        polarity = blob.sentiment.polarity

        if polarity > 0:
            positive += tweet + '\n'
        elif polarity < 0:
            negative += tweet + '\n'

print("Positive Tweets:")
print(positive)

print("\nNegative Tweets:")
print(negative)
```

```python
# Handle NaN values in 'Tweet' column
df['TWEET'] = df['TWEET'].fillna('')
for tweet in df['TWEET']:
    # Check if the tweet is not NaN (a string)
    if isinstance(tweet, str):
        blob = TextBlob(tweet)
        polarity = blob.sentiment.polarity
```

Positive Tweets:

Just before the assembly elections, #KCR covertly purchased 22 Toyota Land Cruisers for a total of Rs 66cr using public funds, intending to win back power. According to #Telangana Chief Minister Revanth Reddy, he sent cars to #Vijayawada to make them bulletproof.

Singareni Elections: Congress affiliated INTUC wins 6 out of 11 divisions, CPI backed AITUC bags 5. BRS affiliated TBGKS drew a blank along with BJP led BMS.

Despite the entire country facing the impact of COVID-19, there has been development in Telangana.Even with the challenges of the pandemic affecting many states, Telangana has excelled in development nationwide...!!"

#KCR, the fraud who imposed 95% reservations, accuses others of being thieves, calling their party a gang, and says they want change. He sits comfortably with his cronies, mocking our struggles. When confronted with the truth, he resorts to violence and confrontation

"Why does KTR promise victories on a particular date if he creates assets worth 50 crores? - Counter to KTR by Bandi Sanjay."

The journalists who opposed KCR are now saying that everything is good if KCR is the Chief Minister...What Telangana couldn't achieve in 70 years, KCR has accomplished in the past 9 and a half years.Those who couldn't do what KCR did for Telangana have nothing to say

A talented leader like KCR is not found anywhere in the country.

"If Y.S. Rajasekhara Reddy had initiated the initiative for free electricity first, it would have been practically done. KCR implemented it and demonstrated it - CPI(M) MLA Sambasivarao"

#KCR's Land Cruiser story said by CM #RevanthReddy, is quite old, and it is highly publicised in the media, there is nothing secret or sensational about it. Congress is attempting to shift attention away from their inability to implement the promises says

Under the leadership of Telanganas first CM #KCR Garu, #Telangana topped in asset creation among all large states??For every ?1 Rupee Debt, Telangana created ?1000 worth of assets??The Congress Govt is trying to escape from implementing their 6 Guarantees by indulging in mudslinging against the previous BRS Govt by showing Finances in bad light.

No it's not the amount of investment coming into Telangana..It's the Outstanding debt created on #Telangana by the #KCR Govt!

"No matter how many criticisms are made, the assets created by KCR disappear before they are disclosed."

"The great leader KCR, who won the hearts of the people of the country."

If you have eyes once see clearly & u have tongue once read perfectly... #kanti_velugu scheem will be free if our #KCR sir government will bi there... This is my opinion towards brs party...

"KCR's value hasn't been recognized for many days... until recently, they criticized, but now they are saying KCR is a new trend."

Let's make Telangana pink again.What matters is that the world will know the differencebetween the truth & false #BRSswedhapathram

honestly speaking the leadership of #KCR sir was so powerful it made remarkable efforts only in 9+ years for the nation to take example from it

Under the Leadership of Sri #KCR Garu, #Telangana is the most successful startup State of India Telangana Per Capita Income increased from ?1,12,162 in 2014 to ?3,17,115 in 2023. GSDP increased from ?4.51 Lakh Cr in 2014 to ?13.27 Lakh Cr in 2023

All good done by the Honble former #KCR sir worth praise. Great efforts Great governance speaks loud and clear with high standards. @KTRBRS

"BRS Party has demanded about national highways, but no one has taken any action."

All big businesses were here in #Telangana on because of sustainable growth of #BRS PARTY#KCR & @KTRBRSsir ...now no one can take the credit of their great initiatives & policies . So think twice before you take the credit of other work #Congress

Agreed, but it is all for self-promotion. What did he do for the country? Can you list his world-record achievements for the country and its people?I can list out dozens of great things done by #KCR's government in #Telangana.

Negative Tweets:

The Chief Minister is seated in Kurchi, but Revanth Reddy is unable to change his stance or position.#kcr

"Then, there was a protest against unemployment. Now, there seems to be no action on the issue in the assembly."

Ex #BRS govt led by #KCR misused tax payers money & projected it as asset creation, took up several unnecessary constructions like the new #TelanganaSecretariat building, by demolishing functional buildings, which shd have been used for hospital or..

"Why are you imposing taxes on the poor people? Murali, who personally targeted #KCR, is now silent. What happened?"

Vijay Shanti satires on KCR!.. He will turn the wheel of the Center with the seats coming in three states.

In [99]:
```
!pip install bert-extractive-summarizer
!pip install transformers
```

Collecting bert-extractive-summarizer
  Downloading bert_extractive_summarizer-0.10.1-py3-none-any.whl (25 kB)
Requirement already satisfied: transformers in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from bert-extractive-summarizer) (4.32.1)
Requirement already satisfied: scikit-learn in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from bert-extractive-summarizer) (1.3.0)
Collecting spacy (from bert-extractive-summarizer)
  Obtaining dependency information for spacy from
https://files.pythonhosted.org/packages/90/f0/0133b684e18932c7bf4075d94819746cee2c0329f2569db526b0fa1df1df/spacy-3.7.2-cp311-cp311-win_amd64.whl.metadata
  Downloading spacy-3.7.2-cp311-cp311-win_amd64.whl.metadata (26 kB)
Requirement already satisfied: numpy>=1.17.3 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from scikit-learn->bert-extracti

ve-summarizer) (1.24.3)

Requirement already satisfied: scipy>=1.5.0 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from scikit-learn->bert-extractive-summarizer) (1.11.1)

Requirement already satisfied: joblib>=1.1.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from scikit-learn->bert-extractive-summarizer) (1.2.0)

Requirement already satisfied: threadpoolctl>=2.0.0 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from scikit-learn->bert-extractive-summarizer) (2.2.0)

Collecting spacy-legacy<3.1.0,>=3.0.11 (from spacy->bert-extractive-summarizer)
  Downloading spacy_legacy-3.0.12-py2.py3-none-any.whl (29 kB)

Collecting spacy-loggers<2.0.0,>=1.0.0 (from spacy->bert-extractive-summarizer)
  Obtaining dependency information for spacy-loggers<2.0.0,>=1.0.0 from
https://files.pythonhosted.org/packages/33/78/d1a1a026ef3af911159398c939b1509d5c36fe524c7b644f34a5146c4e16/spacy_loggers-1.0.5-py3-none-any.whl.metadata
  Downloading spacy_loggers-1.0.5-py3-none-any.whl.metadata (23 kB)

Collecting murmurhash<1.1.0,>=0.28.0 (from spacy->bert-extractive-summarizer)
  Obtaining dependency information for murmurhash<1.1.0,>=0.28.0 from https://files.pythonhosted.org/packages/71/46/af01a20ec368bd9cb49a1d2df15e3eca113bbf6952cc1f2a47f1c6801a7f/murmurhash-1.0.10-cp311-cp311-win_amd64.whl.metadata
  Downloading murmurhash-1.0.10-cp311-cp311-win_amd64.whl.metadata (2.0 kB)

Collecting cymem<2.1.0,>=2.0.2 (from spacy->bert-extractive-summarizer)
  Obtaining dependency information for cymem<2.1.0,>=2.0.2 from
https://files.pythonhosted.org/packages/c1/c3/dd044e6f62a3d317c461f6f0c153c6573ed13025752d779e514000c15dd2/cymem-2.0.8-cp311-cp311-win_amd64.whl.metadata
  Downloading cymem-2.0.8-cp311-cp311-win_amd64.whl.metadata (8.6 kB)

Collecting preshed<3.1.0,>=3.0.2 (from spacy->bert-extractive-summarizer)
  Obtaining dependency information for preshed<3.1.0,>=3.0.2 from https://files.pythonhosted.org/packages/e4/fc/78cdbdb79f5d6d45949e72c32445d6c060977ad50a1dcfc0392622165f7c/preshed-3.0.9-cp311-cp311-win_amd64.whl.metadata
  Downloading preshed-3.0.9-cp311-cp311-win_amd64.whl.metadata (2.2 kB)

Collecting thinc<8.3.0,>=8.1.8 (from spacy->bert-extractive-summarizer)
  Obtaining dependency information for thinc<8.3.0,>=8.1.8 from
https://files.pythonhosted.org/packages/74/24/564a7df5b1fac0520f6b55137deea2cc0b6f7d6e66228f1645dbfd59bb33/thinc-8.2.2-cp311-cp311-win_amd64.whl.metadata
  Downloading thinc-8.2.2-cp311-cp311-win_amd64.whl.metadata (15 kB)

Collecting wasabi<1.2.0,>=0.9.1 (from spacy->bert-extractive-summarizer)
  Obtaining dependency information for wasabi<1.2.0,>=0.9.1 from https://files.pythonhosted.org/packages/8f/69/26cbf0bad11703241cb84d5324d868097f7a8faf2f1888354dac8883f3fc/wasabi-1.1.2-py3-none-any.whl.metadata
  Downloading wasabi-1.1.2-py3-none-any.whl.metadata (28 kB)

Collecting srsly<3.0.0,>=2.4.3 (from spacy->bert-extractive-summarizer)
  Obtaining dependency information for srsly<3.0.0,>=2.4.3 from https://files.pythonhosted.org/packages/eb/f5/e3f29993f673d91623df6413ba64e815dd2676fd7932cbc5e7347402ddae/srsly-2.4.8-cp311-cp311-win_amd64.whl.metadata
  Downloading srsly-2.4.8-cp311-cp311-win_amd64.whl.metadata (20 kB)

Collecting catalogue<2.1.0,>=2.0.6 (from spacy->bert-extractive-summarizer)
  Obtaining dependency information for catalogue<2.1.0,>=2.0.6 from
https://files.pythonhosted.org/packages/9e/96/d32b941a501ab566a16358d68b6eb4e4acc373fab3c3c4d7d9e649f7b4bb/catalogue-2.0.10-py3-none-any.whl.metadata
  Downloading catalogue-2.0.10-py3-none-any.whl.metadata (14 kB)

Collecting weasel<0.4.0,>=0.1.0 (from spacy->bert-extractive-summarizer)
  Obtaining dependency information for weasel<0.4.0,>=0.1.0 from https://files.pythonhosted.org/packages/d5/e5/b63b8e255d89ba4155972990d42523251d4d1368c4906c646597f63870e2/weasel-0.3.4-py3-none-any.whl.metadata
  Downloading weasel-0.3.4-py3-none-any.whl.metadata (4.7 kB)

Collecting typer<0.10.0,>=0.3.0 (from spacy->bert-extractive-summarizer)
  Downloading typer-0.9.0-py3-none-any.whl (45 kB)
     -- 0.0/45.9 kB ? eta -:--:--
     -- 45.9/45.9 kB 1.1 MB/s eta 0:00:00

Requirement already satisfied: smart-open<7.0.0,>=5.2.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from spacy->bert-extractive-summarizer) (5.2.1)

Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from spacy->bert-extractive-summarizer) (4.65.0)

Requirement already satisfied: requests<3.0.0,>=2.13.0 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from spacy->bert-extractive-summarizer) (2.31.0)

Requirement already satisfied: pydantic!=1.8,!=1.8.1,<3.0.0,>=1.7.4 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from spacy->bert-extractive-summarizer) (1.10.8)

Requirement already satisfied: jinja2 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from spacy->bert-extractive-summarizer) (3.1.2)

Requirement already satisfied: setuptools in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from spacy->bert-extractive-summa

Requirement already satisfied: setuptools in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from spacy->bert-extractive-summa
rizer) (68.0.0)
Requirement already satisfied: packaging>=20.0 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from spacy->bert-extractive-
summarizer) (23.1)
Collecting langcodes<4.0.0,>=3.2.0 (from spacy->bert-extractive-summarizer)
  Downloading langcodes-3.3.0-py3-none-any.whl (181 kB)
     -------------------------------------- 0.0/181.6 kB ? eta -:--:--
     --------- ----------------------------- 41.0/181.6 kB ? eta -:--:--
     --------- ----------------------------- 41.0/181.6 kB ? eta -:--:--
     ---------------------- -------------- 112.6/181.6 kB 1.1 MB/s eta 0:00:01
     ---------------------- -------------- 112.6/181.6 kB 1.1 MB/s eta 0:00:01
     --------------------------------- - 174.1/181.6 kB 871.5 kB/s eta 0:00:01
     ---------------------------------- 181.6/181.6 kB 685.6 kB/s eta 0:00:00
Requirement already satisfied: filelock in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers->bert-extractive-sum
marizer) (3.9.0)
Requirement already satisfied: huggingface-hub<1.0,>=0.15.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transform
ers->bert-extractive-summarizer) (0.15.1)
Requirement already satisfied: pyyaml>=5.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers->bert-extractiv
e-summarizer) (6.0)
Requirement already satisfied: regex!=2019.12.17 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers->bert-ext
ractive-summarizer) (2022.7.9)
Requirement already satisfied: tokenizers!=0.11.3,<0.14,>=0.11.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transfo
rmers->bert-extractive-summarizer) (0.13.2)
Requirement already satisfied: safetensors>=0.3.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers->bert-ex
tractive-summarizer) (0.3.2)
Requirement already satisfied: fsspec in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from huggingface-hub<1.0,>=0.15.1->tr
ansformers->bert-extractive-summarizer) (2023.4.0)
Requirement already satisfied: typing-extensions>=3.7.4.3 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from huggingface-
hub<1.0,>=0.15.1->transformers->bert-extractive-summarizer) (4.7.1)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from
requests<3.0.0,>=2.13.0->spacy->bert-extractive-summarizer) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from requests<3.0.0,>=2.13.0->s
pacy->bert-extractive-summarizer) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from
requests<3.0.0,>=2.13.0->spacy->bert-extractive-summarizer) (1.26.16)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from
requests<3.0.0,>=2.13.0->spacy->bert-extractive-summarizer) (2023.7.22)
Collecting blis<0.8.0,>=0.7.8 (from thinc<8.3.0,>=8.1.8->spacy->bert-extractive-summarizer)
  Obtaining dependency information for blis<0.8.0,>=0.7.8 from
https://files.pythonhosted.org/packages/2f/09/da0592c74560cc33396504698122f7a56747c82a5e072ca7d2c3397898e1/blis-0.7.11-cp311
-cp311-win_amd64.whl.metadata
  Downloading blis-0.7.11-cp311-cp311-win_amd64.whl.metadata (7.6 kB)
Collecting confection<1.0.0,>=0.0.1 (from thinc<8.3.0,>=8.1.8->spacy->bert-extractive-summarizer)
  Obtaining dependency information for confection<1.0.0,>=0.0.1 from https://files.pythonhosted.org/packages/39/78/f9d18da7b979a2e60
07bfcea2f3c8cc02ed210538ae1ce7e69092aed7b18/confection-0.1.4-py3-none-any.whl.metadata
  Downloading confection-0.1.4-py3-none-any.whl.metadata (19 kB)
Requirement already satisfied: colorama in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from tqdm<5.0.0,>=4.38.0->spacy->
bert-extractive-summarizer) (0.4.6)
Requirement already satisfied: click<9.0.0,>=7.1.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from typer<0.10.0,>=0.3.0-
>spacy->bert-extractive-summarizer) (8.0.4)
Collecting cloudpathlib<0.17.0,>=0.7.0 (from weasel<0.4.0,>=0.1.0->spacy->bert-extractive-summarizer)
  Obtaining dependency information for cloudpathlib<0.17.0,>=0.7.0 from
https://files.pythonhosted.org/packages/0f/6e/45b57a7d4573d85d0b0a39d99673dc1f5eea9d92a1a4603b35e968fbf89a/cloudpathlib-0.16.
0-py3-none-any.whl.metadata
  Downloading cloudpathlib-0.16.0-py3-none-any.whl.metadata (14 kB)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from jinja2->spacy->bert-ext
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Downloading cymem-2.0.8-cp311-cp311-win_amd64.whl (39 kB)
Downloading murmurhash-1.0.10-cp311-cp311-win_amd64.whl (25 kB)
Downloading preshed-3.0.9-cp311-cp311-win_amd64.whl (122 kB)

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Downloading srsly-2.4.8-cp311-cp311-win_amd64.whl (479 kB)
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Downloading wasabi-1.1.2-py3-none-any.whl (27 kB)
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Downloading confection-0.1.4-py3-none-any.whl (35 kB)
Installing collected packages: cymem, wasabi, spacy-loggers, spacy-legacy, murmurhash, langcodes, cloudpathlib, catalogue, blis, typer,
srsly, preshed, confection, weasel, thinc, spacy, bert-extractive-summarizer
Successfully installed bert-extractive-summarizer-0.10.1 blis-0.7.11 catalogue-2.0.10 cloudpathlib-0.16.0 confection-0.1.4 cymem-2.0.8 la
ngcodes-3.3.0 murmurhash-1.0.10 preshed-3.0.9 spacy-3.7.2 spacy-legacy-3.0.12 spacy-loggers-1.0.5 srsly-2.4.8 thinc-8.2.2 typer-0.9.0
wasabi-1.1.2 weasel-0.3.4
Requirement already satisfied: transformers in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (4.32.1)
Requirement already satisfied: filelock in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (3.9.0)
Requirement already satisfied: huggingface-hub<1.0,>=0.15.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transform
ers) (0.15.1)
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9)
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rmers) (0.13.2)
Requirement already satisfied: safetensors>=0.3.1 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (0.3.2)
Requirement already satisfied: tqdm>=4.27 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from transformers) (4.65.0)
Requirement already satisfied: fsspec in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from huggingface-hub<1.0,>=0.15.1->tr
ansformers) (2023.4.0)
Requirement already satisfied: typing-extensions>=3.7.4.3 in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from huggingface-
hub<1.0,>=0.15.1->transformers) (4.7.1)
Requirement already satisfied: colorama in c:\users\nikitha deshmukh\anaconda3\lib\site-packages (from tqdm>=4.27->transformers) (0.
4.6)
```

In [100]:

```python
from summarizer import Summarizer

# Sample text for summarization
sample_text = """
"Looks like Revanth Reddy is gaining significant support in the northern districts. Interesting dynamics in #TelanganaElections"
The hot seat in Telangana is Kodangal. I am Contesting from there and confidently I am winning there...He said and he did it
3 MPs exited the Lok Sabha without voting in support of the #WomenReservationBill, neither initiating nor supporting it earlier, nor doing so now.shame on #TCongress Leaders @revanth_anumula@UttamINC  @KomatireddyKVR#shameless #Scamgress party
Two master strokes by @revanth_anumula as   chief before elections.  1.Forcing #KCR garu to stick with sitting MLAs to captivate on anti incumbency. 2. Successfully oppossing #sharmila into #Tcongress  to prevent a negative campaign from #BRS on sentiment.
#TCongress campaign C convener #TeenmarMallanna is doing damage to the  party by promoting through #Qnews without any evidence that has sold tickets and fielded dummy #Congress candidates in 23 seats..! This allegation is very damaging to the party.
Every Lady must do this whether it is #JSP #TDP #YSRCP #TRS #BJP #Congress any other political parties must do this. Every Women has their right to speak independently & Question their rights for what they are individually. #JaiJanasena  #JaiBharat #JaiHind
Telangana Congress party president Revanth bro ?? Changing political parties like dress change for each general elections. College Life #ABVP leader 1st-#BJP 2nd-#TRS? 3nd-#TDP? (opposite to Telangana movement and harassed  Telanganapeople) 4th #Congress 5th #BJP (after 2024 elections)??
Traveling in a bus after many years ?? spoke to conductors they are not happy with the salary, government needs to find the better solution to support these TSRTC employees #tsrtc #hyderabad #bus #telangana #apsrtc #kcr #india #buses #KCR #KTR #RTC #trs #BJP #Congress #TDP #JSP
Is KCR or Congress more practical?
Hope @INCTelangana @INCIndia @BRSparty @HiHyderabad @KTRBRS #Congress hope you people will fulfill this dream of show dream to Telangana. We are gonna miss our beloved #TRS leader's
In #Telangana one side #BJP4Telangana n other side 3 family #Congress #TRS n #AIMIM ,In day time 3 family parties accused each other n in night they become one, Congress TRS offering Lolipop(Free Free Free)to Secular Hindus n ReligiousMuslim voters n AIMIM for Muslim CM n PM....
BRS leaders seen dominating the ruling Congress and Speaker, speaking more than one hour, not allowed ruling party leaders to speak. It's a big challenge to CM #RevanthReddy
"Tomorrow, let's come together in large numbers for the victory rally... Let's raise the flag of our Congress high."
Congress means Revanth... Revanth means Congress... Workers laugh at both: Komatireddy Venkat Reddy."
#RevanthReddy: 3 hours of free electricity for farmers."
Revanth Reddy: Accusing Chief Minister KCR of acquiring the assets of someone who is about to become the Chief Minister, he bought 22 new cars and disposed of them."
Our CM Revanth Reddy is removing powerful officers and making changes towards good governance!!
"""

# Summarize the text
model = Summarizer()
summary = model(sample_text)

# Print the summary
print(summary)
```

"Looks like Revanth Reddy is gaining significant support in the northern districts. Successfully opposing #sharmila into #Tcongress to prevent a negative campaign from #BRS on sentiment. #TCongress campaign C convener #TeenmarMallanna is doing damage to the party by promoting through #Qnews without any evidence that has sold tickets and fielded dummy #Congress candidates in 23 seats..! Every Women has their right to speak independently & Question their rights for what they are individually. # Changing political parties like dress change for each general elections.

In [101]:

```python
from summarizer import Summarizer

# Sample text for summarization
sample_text = """
"As Usual,  It's Clear.. 2 #suitcases for 2 MLAs  #Revanthreddy is doing his actual duty as a BROKER buying #Mainampalli
#WelcomePractice introduced by #NewTelanganaCM @revanth_anumula whose #VIPconvoy travelled in regular traffic like any other
citizen, respecting signals; #NoTrafficStopped #NoSiren; #RevanthReddy has said he does not want to the public @ndtv @ndtvindia
#NoVIPCulture
Team @INCTelangana filed a complaint at the Moinabad police station against 12 MLAs who were sold from the #Congress party to the
#TRS party.We will file a complaint with the CBI & ED as well, ready to take legal action if necessary - @revanth_anumula @BhattiCLP
It's not #BJP #KCR but #Congress #TRS #AIMIM - 3 Razakar n Corrupted parties Joined together secretly at dark night, TRS n AIMIM
will join I.N.D.I.A. after #TelanganaElections2023 ,Pliz Vote #BJP4Telangana n recover #Telangana fm Family n Capitalist rule n estd
Democracy there...
KCR has failed to effectively manage responsibilities in Telangana... Not worthy of questioning Prime Minister Modi.
#KCRFailedTelangana
I am sorry  @Swamy39 ji, former @INCIndia president Mrs #SoniaGandhi Ji is my mother.
To Chief Minister Siddaramaiah, The thief who went to jail, @revanth_anumula , where is the policy? ?? There is a storm brewing for
both
Boinapalli Vinod Anna said ?? True, If BRS has done that, it's a shame. If the allegations are false, people should teach lesson to those
who defame us. #RevanthReddy"
Tomorrow's Vijayabheri Sabha, which is expected to draw lakhs of attendees, will see our Congress leaders enthusiastically participating.
To Chief Minister Siddaramaiah,The thief who went to jail,@revanth_anumula Where did he get the stick to poke?A challenge for both,
like a game of chess ??"
"""

# Summarize the text
model = Summarizer()
summary = model(sample_text)

# Print the summary
print(summary)
```

"As Usual, It's Clear.. 2 #suitcases for 2 MLAs #Revanthreddy is doing his actual duty as a BROKER buying #Mainampalli #WelcomePractice introduced by #NewTelanganaCM @revanth_anumula whose #VIPconvoy travelled in regular traffic like any other citizen, respecting signals; #NoTrafficStopped #NoSiren; #RevanthReddy has said he does not want to the public @ndtv @ndtvindia #NoVIPCulture

Team @INCTelangana filed a complaint at the Moinabad police station against 12 MLAs who were sold from the #Congress party to the #TRS party. To Chief Minister Siddaramaiah,The thief who went to jail,@revanth_anumula Where did he get the stick to poke?A challenge for both, like a game of chess ??"

In [102]:

```python
from summarizer import Summarizer

# Sample text for summarization
sample_text = """
Just before the assembly elections, #KCR covertly purchased 22 Toyota Land Cruisers for a total of Rs 66cr using public funds, intending to win back power. According to #Telangana Chief Minister Revanth Reddy, he sent cars to #Vijayawada to make them bulletproof.
Singareni Elections: Congress affiliated INTUC wins 6 out of 11 divisions, CPI backed AITUC bags 5. BRS affiliated TBGKS drew a blank along with BJP led BMS.
Despite the entire country facing the impact of COVID-19, there has been development in Telangana.Even with the challenges of the pandemic affecting many states, Telangana has excelled in development nationwide...!!"
#KCR, the fraud who imposed 95% reservations, accuses others of being thieves, calling their party a gang, and says they want change. He sits comfortably with his cronies, mocking our struggles. When confronted with the truth, he resorts to violence and confrontation
"Why does KTR promise victories on a particular date if he creates assets worth 50 crores? - Counter to KTR by Bandi Sanjay."
The journalists who opposed KCR are now saying that everything is good if KCR is the Chief Minister...What Telangana couldn't achieve in 70 years, KCR has accomplished in the past 9 and a half years.Those who couldn't do what KCR did for Telangana have nothing to say
A talented leader like KCR is not found anywhere in the country.
"If Y.S. Rajasekhara Reddy had initiated the initiative for free electricity first, it would have been practically done. KCR implemented it and demonstrated it - CPI(M) MLA Sambasivarao"
#KCR's Land Cruiser story said by CM #RevanthReddy, is quite old, and it is highly publicised in the media, there is nothing secret or sensational about it. Congress is attempting to shift attention away from their inability to implement the promises says
Under the leadership of Telanganas first CM #KCR Garu, #Telangana topped in asset creation among all large states??For every ?1 Rupee Debt, Telangana created ?1000 worth of assets??The Congress Govt is trying to escape from implementing their 6 Guarantees by indulging in mudslinging against the previous BRS Govt by showing Finances in bad light.
No it's not the amount of investment coming into Telangana..It's the Outstanding debt created on #Telangana by the #KCR Govt!
"No matter how many criticisms are made, the assets created by KCR disappear before they are disclosed."
"The great leader KCR, who won the hearts of the people of the country."
If you have eyes once see clearly & u have tongue once read perfectly... #kanti_velugu scheem will be free if our #KCR sir government will bi there... This is my opinion towards brs party...
"KCR's value hasn't been recognized for many days... until recently, they criticized, but now they are saying KCR is a new trend."
Let's make Telangana pink  again.What matters is that the world will know the differencebetween the truth & false #BRSswedhapathram honestly speaking the leadership of #KCR sir was so powerful it made remarkable efforts only in 9+ years for the nation to take example from it
Under the Leadership of Sri #KCR Garu, #Telangana is the most successful startup State of India Telangana Per Capita Income increased from ?1,12,162 in 2014 to ?3,17,115 in 2023. GSDP increased from ?4.51 Lakh Cr in 2014 to ?13.27 Lakh Cr in 2023
All good done by the Honble former #KCR sir worth praise. Great efforts Great governance speaks loud and clear with high standards. @KTRBRS
"BRS Party has demanded about national highways, but no one has taken any action."
All big businesses were here in #Telangana on because of sustainable growth of #BRS PARTY#KCR & @KTRBRSsir ...now no one can take the credit of their great initiatives & policies . So think twice before you take the credit of other work #Congress
Agreed, but it is all for self-promotion. What did he do for the country? Can you list his world-record achievements for the country and its people?I can list out dozens of great things done by #KCR's government in #Telangana.
"""
```

```python
# Summarize the text
model = Summarizer()
summary = model(sample_text)

# Print the summary
print(summary)
```

```
C:\Users\nikitha deshmukh\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412: FutureWarning: The default value of `n_init`
will change from 10 to 'auto' in 1.4. Set the value of `n_init` explicitly to suppress the warning
  super()._check_params_vs_input(X, default_n_init=10)
C:\Users\nikitha deshmukh\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1436: UserWarning: KMeans is known to have a m
emory leak on Windows with MKL, when there are less chunks than available threads. You can avoid it by setting the environment varia
ble OMP_NUM_THREADS=1.
  warnings.warn(
Just before the assembly elections, #KCR covertly purchased 22 Toyota Land Cruisers for a total of Rs 66cr using public funds, intendin
g to win back power. He sits comfortably with his cronies, mocking our struggles. The journalists who opposed KCR are now saying that
everything is good if KCR is the Chief Minister...What Telangana couldn't achieve in 70 years, KCR has accomplished in the past 9 and a
half years. Congress is attempting to shift attention away from their inability to implement the promises says
Under the leadership of Telanganas first CM #KCR Garu, #Telangana topped in asset creation among all large states??For every ? 13.2
7 Lakh Cr in 2023
All good done by the Honble former #KCR sir worth praise. @KTRBRS
"BRS Party has demanded about national highways, but no one has taken any action."
```

In [103]:
```python
from summarizer import Summarizer

# Sample text for summarization
sample_text = """
The Chief Minister is seated in Kurchi, but Revanth Reddy is unable to change his stance or position.#kcr
"Then, there was a protest against unemployment. Now, there seems to be no action on the issue in the assembly."
Ex #BRS govt led by #KCR misused tax payers money & projected it as asset creation, took up several unnecessary constructions like
the new #TelanganaSecretariat building, by demolishing functional buildings, which shd have been used for hospital or..
"Why are you imposing taxes on the poor people? Murali, who personally targeted #KCR, is now silent. What happened?"
Vijay Shanti satires on KCR!.. He will turn the wheel of the Center with the seats coming in three states.

"""

# Summarize the text
model = Summarizer()
summary = model(sample_text)

# Print the summary
print(summary)
```

```
C:\Users\nikitha deshmukh\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412: FutureWarning: The default value of `n_init`
will change from 10 to 'auto' in 1.4. Set the value of `n_init` explicitly to suppress the warning
  super()._check_params_vs_input(X, default_n_init=10)
C:\Users\nikitha deshmukh\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1436: UserWarning: KMeans is known to have a m
emory leak on Windows with MKL, when there are less chunks than available threads. You can avoid it by setting the environment varia
ble OMP_NUM_THREADS=1.
  warnings.warn(
The Chief Minister is seated in Kurchi, but Revanth Reddy is unable to change his stance or position.#kcr
"Then, there was a protest against unemployment. Murali, who personally targeted #KCR, is now silent.
```

In [ ]: