Name	Bodhisatya Ghosh
UID no.	2021700026

Experiment 9		
HONOUR PLEDGE	I heleby declate that the documentation code and output attached with this lat experiment has been campleted by me in accordance with the highest of Standards of honerty. I confirm that I have not plagnatized OR used unautholized moterials OR given at Seceived illegitimate help fal campleting this experiment. I will upheld equity and honesty in the evaluation of major walk and if found quilty of plagitatism of dishenesty will beat the consequences as outlined in the integrity section of the law subsice. I am doing so in added to maintain a community built abound his code of honors. Blook	
PROBLEM STATEMENT :	Sentiment Analysis on Social Media Data Select one of the social media channels you would like to analyze the data of - Twitter, Instagram, Reddit, YouTube EDIT: Based on this article, I feel it might be much harder to scrape	
	EDIT. Based on this article, Fleel it might be much harder to scrape	

tweets now as compared to before 2023. So I would recommend looking at other sources beyond Twitter (X) as your data source.

- Select value/s for relevant attributes like 'author', 'topic', 'mention', #tag', 'country' etc. to narrow down the scope of what you would like to analyze.
- Fetch the narrowed down data across a specific time window using
 python libraries. This time-window would allow to compare and contrast
 sentiments across different times and for different events that occur
 during the time-window
- 4. Process the text and do sentiment analysis on it using relevant libraries (Twitter lexicon would require a more specialized library)
- 5. Plot the results and state your analysis

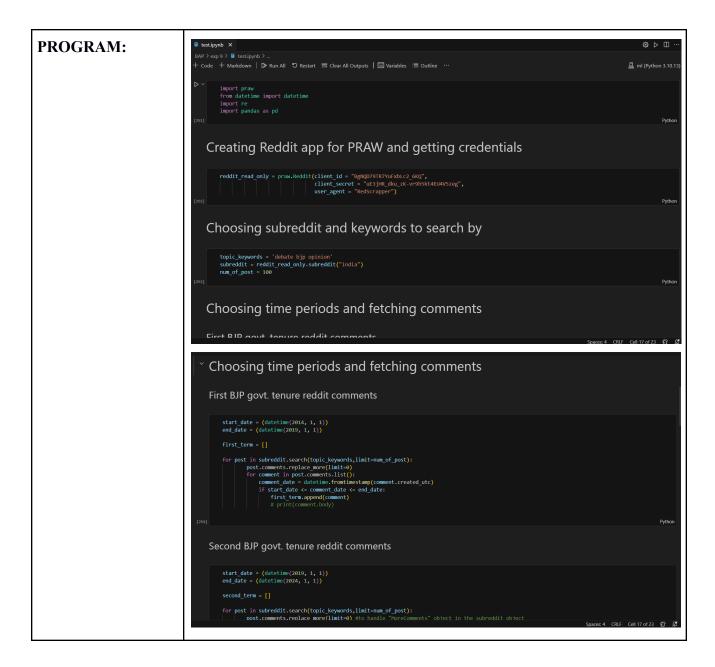
Bonus: The top Result Visualization and Analysis for this experiment would be awarded an extra **+2 points**. This will be solely used to cover up for previous or future performance gaps.

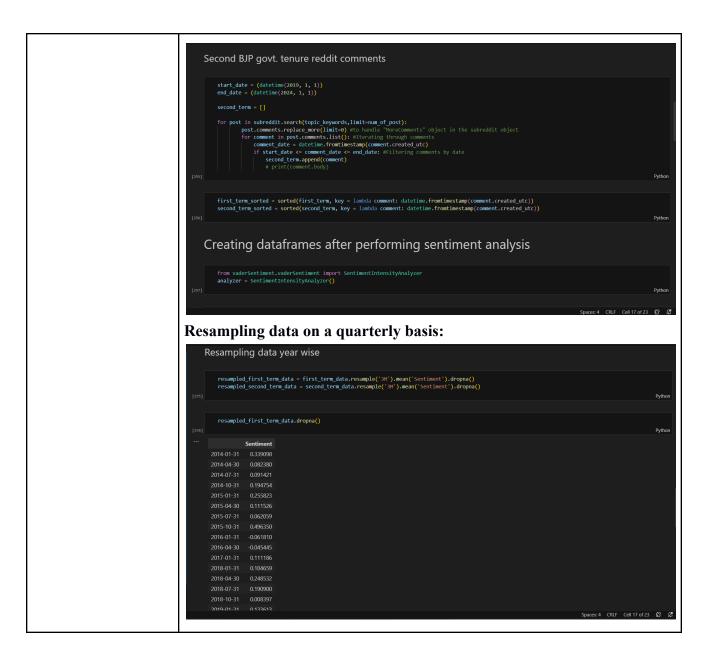
THEORY:

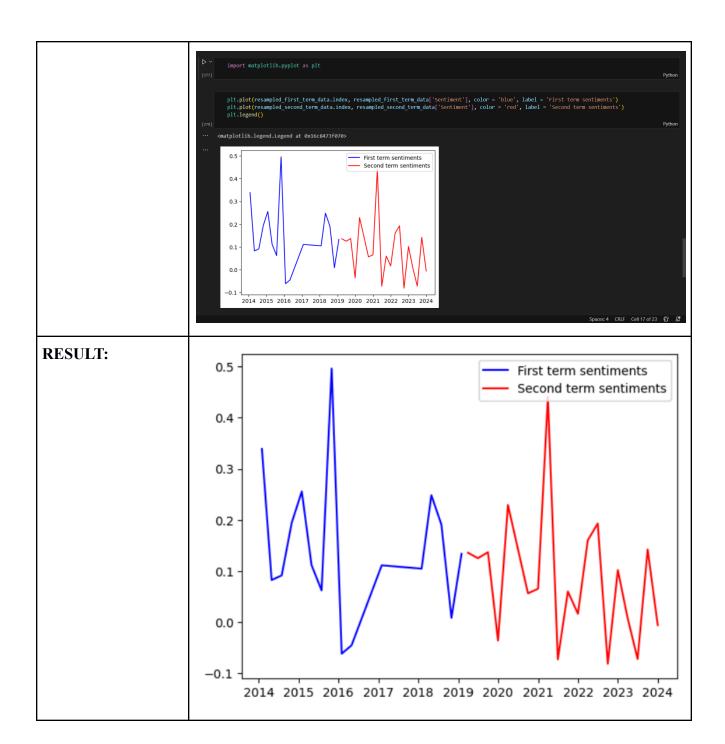
PRAW, short for Python Reddit API Wrapper, is a powerful Python package that provides convenient access to Reddit's API. With PRAW, developers can easily interact with Reddit, retrieve data and perform various actions. PRAW aims to be as easy to use as possible and is designed to follow all of Reddit's API rules.

Sentiment analysis is the process of analyzing digital text to determine if the emotional tone of the message is positive, negative, or neutral. Today, companies have large volumes of text data like emails, customer support chat transcripts, social media comments, and reviews. Sentiment analysis tools can scan this text to automatically determine the author's attitude towards a topic. Companies use the insights from sentiment analysis to improve customer service and increase brand reputation.

Analysis topic: I have chosen to compare the sentiments over time on the subreddit "r/india" regarding the ruling government party at the time. I have used keywords such as "bjp", "debate", "opinion".







References:	What is Sentiment Analysis? - Sentiment Analysis Explained - AWS
	(amazon.com)
	Scraping Reddit Data Using Python and PRAW : A Beginner's Guide by
	Archana Kokate Mar, 2024 Medium

CONCLUSION:

In conclusion, the above mentioned topics and reddit scraping techniques have been used in order to collect and visualize the average sentiment of the reddit comments on "r/india" as given by the python module "VADER Sentiment".