EDS THEORY ASSIGNMENT 1

Name: Komal Dhanajay Gangawane

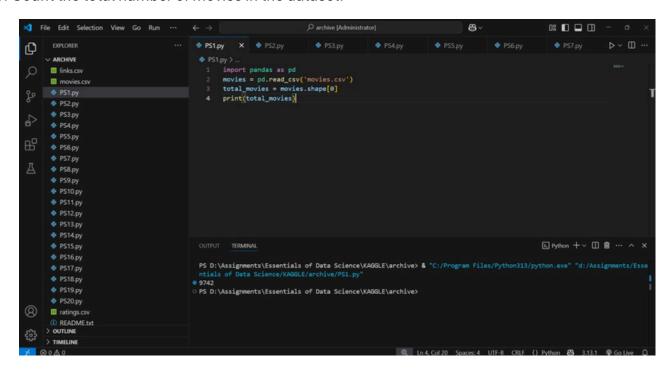
DIV: ET2

Roll No: ET2-75

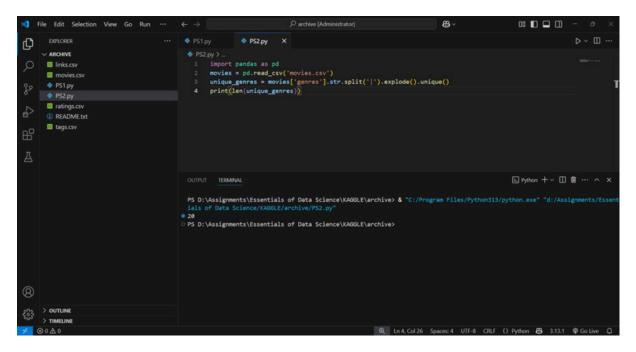
PRN: 202401070218

URL: https://www.kaggle.com/datasets/shubhammehta21/movie-lens-small-latest-dataset

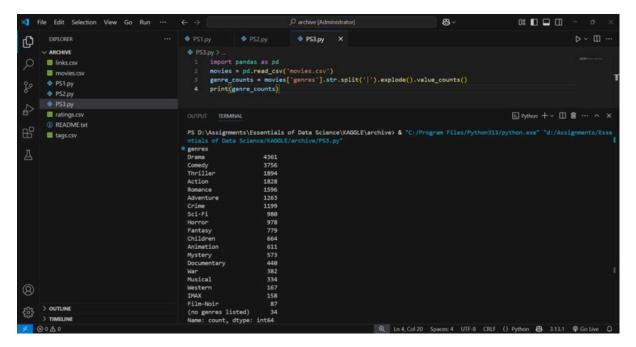
1. Count the total number of movies in the dataset.



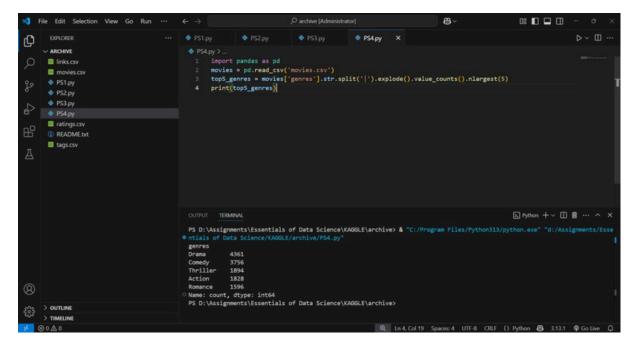
2. Determine the number of unique genres spanning all movies.



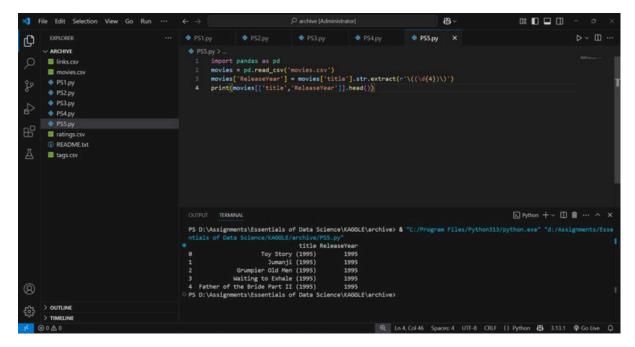
3. Compute how many times each genre appears by splitting and exploding the genre strings.



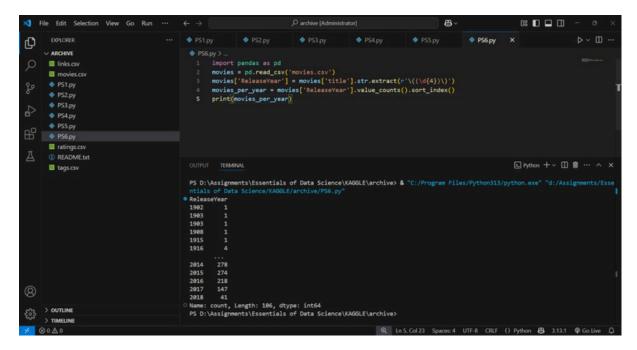
4. Identify the five most frequent genres in the dataset.



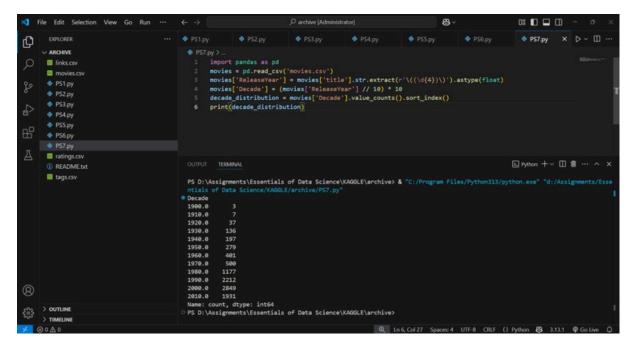
5. Extract the release year from the movie titles.



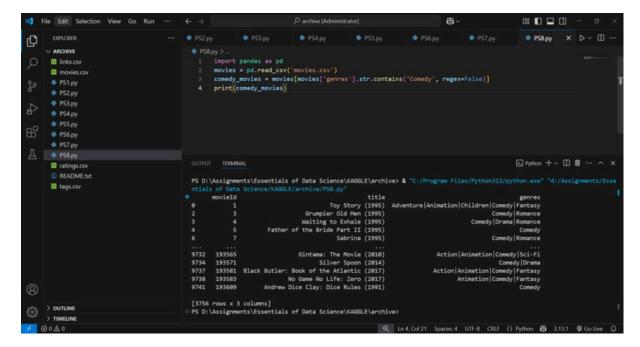
6. Count how many movies were released in each year.



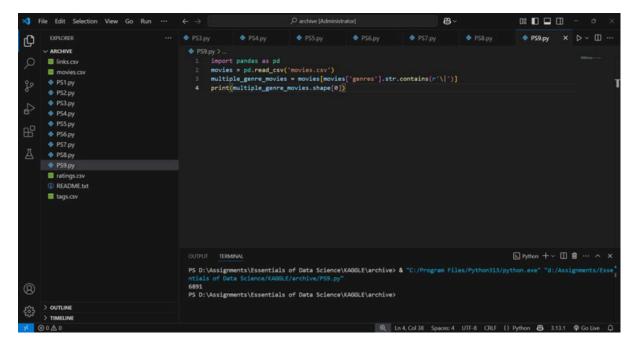
7. Derive each movie's decade (based on the release year) and show the distribution.



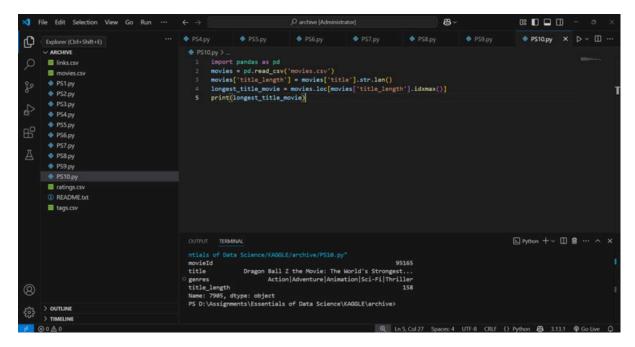
8. Filter out the movies that belong to the "Comedy" genre.



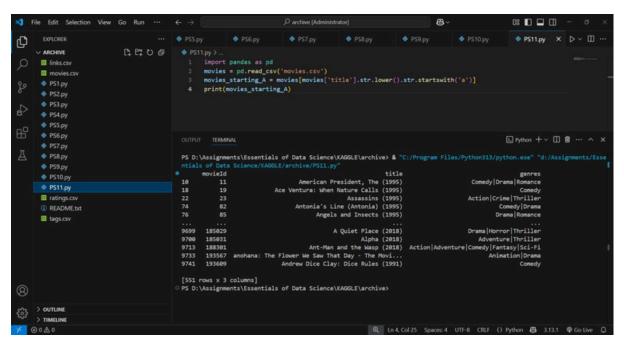
9. Count the number of movies that have more than one genre listed.



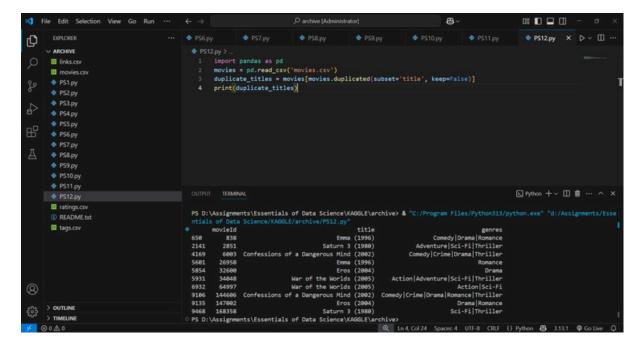
10. Identify the movie with the longest title.



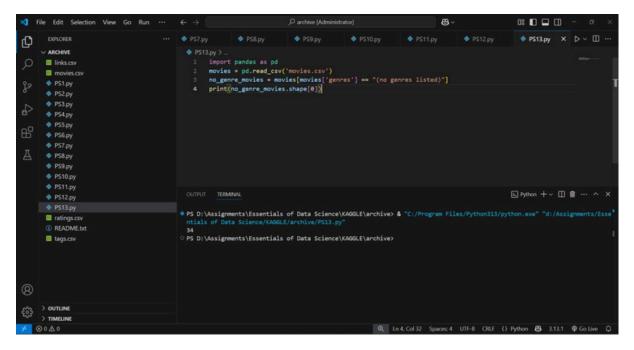
11. Filter movies that have titles starting with the letter "A".



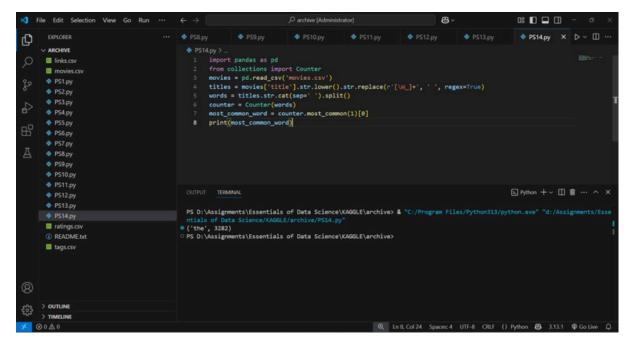
12. Identify movie titles that appear more than once.



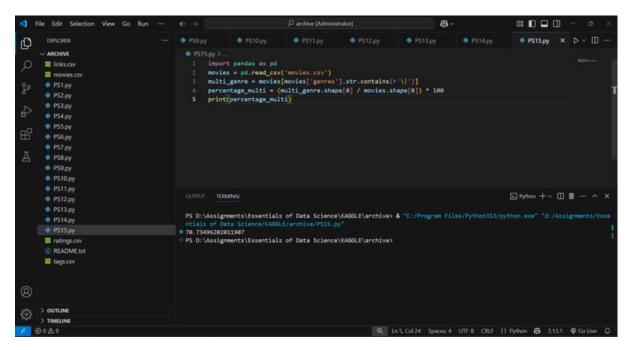
13. Count how many movies are label with "(no genres listed)" in the genres field.



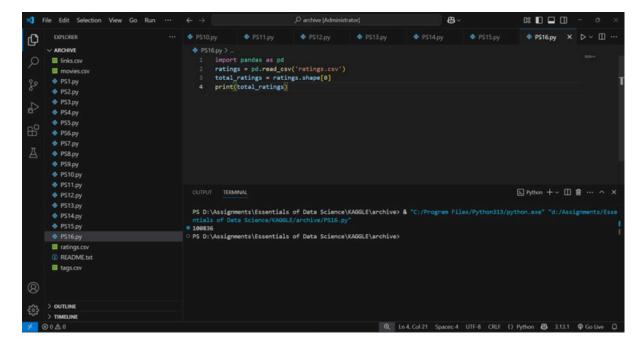
14. Determine the single most common word found in movie titles.



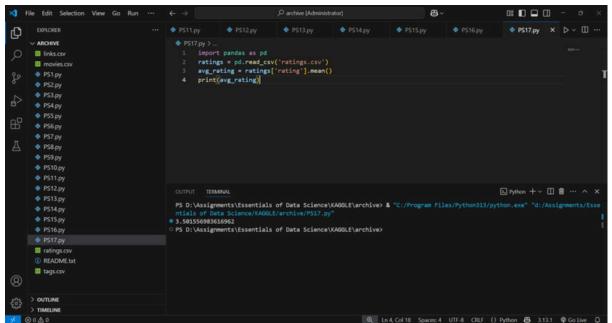
15. Calculate the percentage of movies that belong to multiple genres.



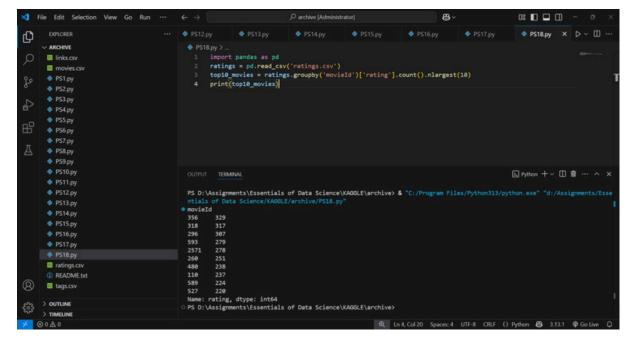
16. Count the total number of ratings



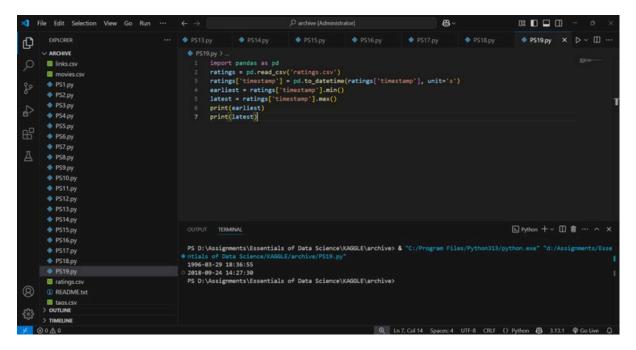
17. Calculate the average rating overall



18. Identify the top 10 movies with the highest number of ratings



19. Find the earliest and latest rating timestamps



20. Calculate the percentage of ratings that are above 4

