

I Pledge My Honor That I Have Abided By The Stevens Honor System

The purpose of this program is to utilize the youtube google api to look up youtube videos and get different statistics that relate to them. The program will take a search term and a search max as input. If the search term is not a string, or if the search max is not an integer/is less than 5, it will stop the program. The search max input will determine how many videos are analyzed, and also how many videos will be written to a csv file. The different statistics that will be accounted for are the video title, id, view count, like count, comment count, dislike count, like percentage, and dislike percentage. The youtube api will parse through the videos based on the given inputs and return the top results for as many videos that the search max will allow for. The program will keep track of different statistics from these videos, and then all of these statistics get written to a list, and then that list will get written to another list in order to have a nested list of all the videos along with their statistics. All of these will be written to a csv file. What will be printed to the console are three different top 5 lists that take into account view count, like percentage, and dislike percentage. This is the reason why the search max should not be less than 5, in order to fill up the top 5 list for each category. Since the results had been written to nested lists, this makes it easy to sort and parse through them in order to create the top 5 lists. Also, although the csv file contains all the statistics that were previously stated, each video output in the console will only state the video title, video id, then the respective statistic that is being ranked (views, like percentage, or dislike percentage). One more thing to note is that although it is called like and dislike percentage, it is really a ratio of likes to views and dislikes to views.