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I pledge my honor that I have abided by the Stevens Honor System.

Purpose: Reilly\_HW3.py was written with the purpose of collecting YouTube video information and performing data analysis based on that information.

Input: The input to the command line to run the program is:

```
python3 Reilly_HW3.py search_term num_terms
```

search\_term being what would be input in the YouTube search bar while looking for videos, and num\_terms being the number of videos collected for data analysis.

Output: The output of the program is a collection of information on up to the five most viewed videos within the total num\_terms. From the csv file created within the program the output will the title, ID, number of views, number of likes, number of dislikes, and number of comments for each of the five or less videos.

What the Program Does: After the user prompts the input in the command line, the program goes into the main to parse the arguments. It then executes the youtube\_search function which will collect the data on the videos based on the search\_term and num\_terms given in the input. This function also creates a csv file. This csv file is used in the function youtube\_search\_term\_csv which does the data analysis of the video and prints the output of the five most viewed videos that were collected for the user to see.

Additional Information: The program is a modification to the youtube\_data.py file that was given to us, so some code in the youtube\_search function comes from there and is based off what that file does.