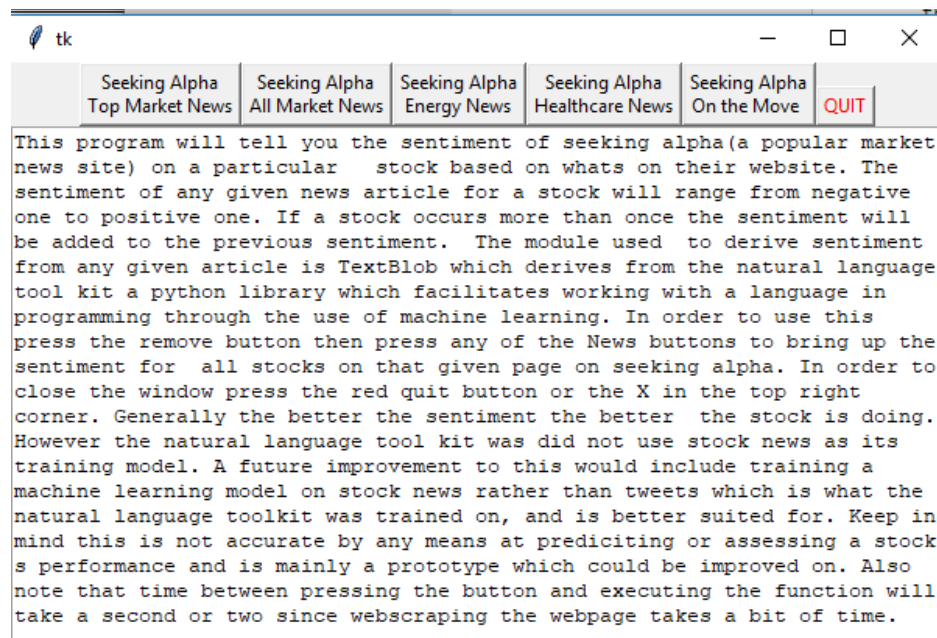


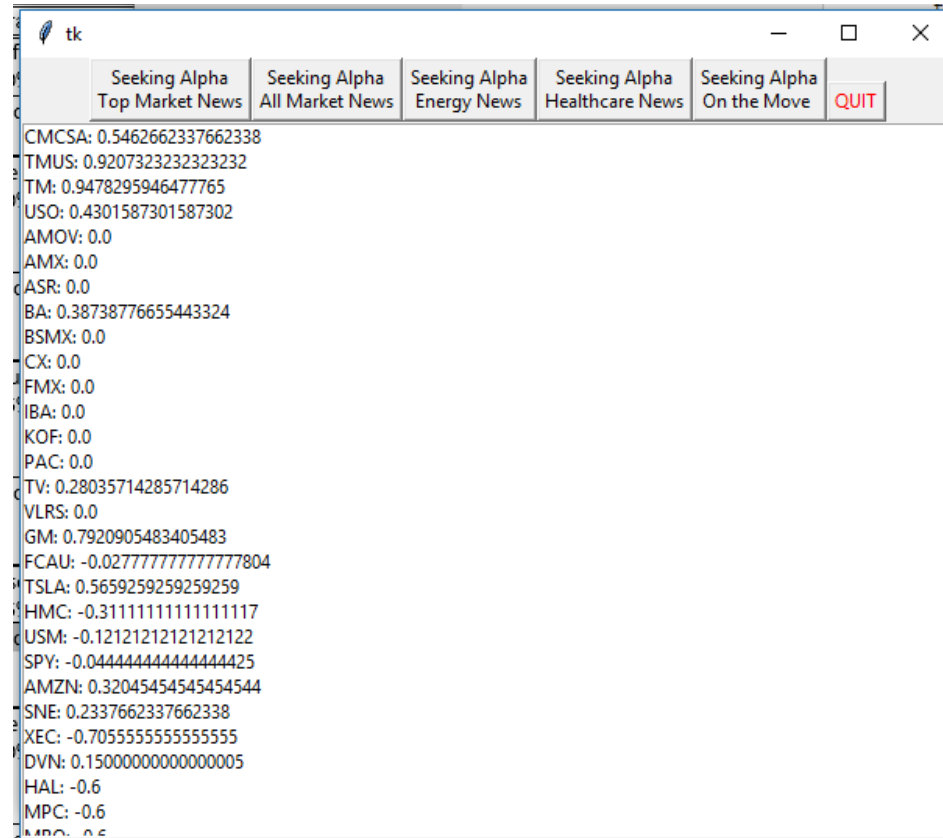
## CS 110 PROJECT STOCK SENTIMENT NEWS READER

The stock sentiment news reader program is a program that webscrapes from multiple outlets from seeking alpha (A popular news website). The output from the sentiment consists of a floating point value that ranges from negative one to positive one or bad to good respectively.

1. Welcome Screen: The user is provided with a short guide of how to use the program and some background information on how it works. The user is provided with five buttons lining the top of the screen not including the quit button. The buttons all correspond to different outlets from seeking alpha which report on how stocks are performing or expected to perform.



- Pressing the buttons: Since the user can press any individual button in the program without any particular order on the screen, it is up to the user to pick which news source he or she would like to view. Here is an example from seeking alpha's top market news page however clicking on any page will look very similar to this.



3. Here we see a perfect example of the program at work. When the user clicks on the seeking alpha All market news tab and the tab displays stock tickers and their corresponding dictionary values. One of the stocks listed(DCI | Donaldson Company Inc.) Is being reported as doing well on the actual website and the ticker is rated at 0.67 which is very close to positive one.

The image shows a Tkinter window titled 'tk' with a menu bar containing 'Seeking Alpha Top Market News', 'Seeking Alpha All Market News' (highlighted with a red circle), 'Seeking Alpha Energy News', 'Seeking Alpha Healthcare News', 'Seeking Alpha On the Move', and 'QUIT'. Below the menu bar, a list of stock tickers and their corresponding dictionary values is displayed: ET: -0.10357142857142856, BAS: 0.06541666666666668, GOLD: 0.16666666666666666, DCI: 0.06666666666666667 (highlighted with a red circle and an arrow), FITB: 0.29166666666666667, TBF: 0.04166666666666667, CPAH: 0.5, and NTNX: 0.75.

Below the Tkinter window, a web browser window shows the URL 'https://seekingalpha.com/market-news/all'. The page displays the Seeking Alpha logo and navigation links: Portfolio, People, News, and Analysis. A search bar is present with the text 'Search by symbol, author, ...'. The main content area shows a news article titled 'Rejection of Barrick bid a no brainer, says top Acacia investor' with a sub-header 'ABGLF'. The article text includes: 'Fidelity International, one of the largest shareholders in Acacia Mining (OTCPK:ABGLF), says Barrick Gold's (NYSE:GOLD) low bid to buy Acacia showed a lack of judgment and the deal's rejection is a "no brainer."', 'We are definitely not going to accept the offer,' says Alexander Wright, portfolio manager at Fidelity International, adding that the bid was ~50% too low., 'I think it reflects extremely badly on Barrick,' Wright says of the takeover bid. 'The ability to operate fairly and economically in Africa is important for the company. This shows a real lack of judgment.', and 'Bermuda-based Fidelity International owns 3.2% of Acacia and is the miner's sixth largest shareholder; analysts say 4% of Acacia shareholders would be needed to block a compulsory sale and 18% to stop a delisting in the case of formal offer.' The article is dated 'Today, 3:20 PM' and has '1 Comment'.

Below the news article, a section titled 'DCI' shows a news article titled 'Donaldson declares \$0.21 dividend'. The article text includes: 'Donaldson (NYSE:DCI) declares \$0.21/share quarterly dividend, 10.5% increase from prior dividend of \$0.19.', 'Forward yield 1.77%', 'Payable June 28; for shareholders of record June 13; ex-div June 12.', 'In addition, Board authorized the repurchase of up to 13M shares of its common stock, or ~10% of its outstanding shares.', and 'See DCI Dividend Scorecard, Yield Chart, & Dividend Growth.' The article is dated 'Today, 3:12 PM'.