INSTALL ELASTICSEARCH

1. sudo apt update
2. sudo apt-get upgrade -y

3. sudo add-apt-repository ppa:webupd8team/java
4. sudo apt-get update OR sudo apt update
5. sudo apt install openjdk-8-jdk

6. cd /tmp
7. wget https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-7.5.2-amd64.deb
8. sudo dpkg -i elasticsearch-7.5.2-amd64.deb

9. sudo systemctl enable elasticsearch.service
10. sudo systemctl start elasticsearch.service
sudo systemctl status elasticsearch.service

INSTALL KIBANA

1. cd /tmp
2. wget https://artifacts.elastic.co/downloads/kibana/kibana-5.6.4-amd64.deb
3. sudo dpkg -i kibana-5.6.4-amd64.deb
4. sudo sysctl -w vm.max_map_count=262144
5. sudo systemctl enable kibana.service
6. sudo systemctl start kibana.service
7. sudo systemctl status kibana.service

INSTALL DOCKER

1. sudo apt-get update
2. sudo apt-get install \
   apt-transport-https \
   ca-certificates \
   curl \
   gnupg-agent \
   software-properties-common

3. curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
4. sudo apt-get install docker-ce docker-ce-cli containerd.io
5. apt-cache madison docker-ce
6. sudo apt-get install docker-ce docker-ce-cli containerd.io
7. sudo apt install docker.io

INSTALL DOCKER_COMPOSE

1. sudo curl -L
   "https://github.com/docker/compose/releases/download/1.28.2/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
2. sudo chmod +x /usr/local/bin/docker-compose
3. sudo ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose

GET ANALYSIS LOCALLY

1. Go to the folder that contain the git repo code now to run desired stocks analysis open the **changes.txt**
   - In front of **stock_name** write the name of stock like : MSFT or TSLA
   - In front of **keywords_to_search** type the keywords you are looking into tweets (the system will select those tweets which contain these words and apply sentimental analysis on them)
   Format for keywords:
      - **Minimum 3 keywords are required**
      - **No spaces between keywords like :**
      elon,musk,tesla,richguy,richestman
      - **If you want to write word in space write in single quotes like:**
      'elon musk','bill gates',rich,richguy
   - In front of **mine_url** type either true or false mine_url will start mining the link as well (if link is in tweet)
   - In front of **followlinks** type either true or false followlinks will start mining from twitter_feeds added into config.py
   - In front of **twitteruserids** type either true or false twitteruserids will start mining from the ids (if valid) in twitteruserids.txt

   Save the file

2. Now open the config.py here you will change
   a. **Nltk_tokens_required** : Here you have to copy at least 3 keywords you have written into step 1. Each keywords will be in double quotes like :
   ("elon", "musk", "rich", "Bill gates")
   b. **Twitter_feeds : You will copy paste name of twitter accounts you want tweets of like :**
   ["@elonmusk", "@nytimes"]

   Save the file

3. If you want to mine data from **twitteruserids** you can add those users in the twitteruserids.txt for that open **twitteruserids.txt** add ids numbers (one id at one line) and **save the file** make sure ids are valid

4. Open terminal and using terminal go to particular folder that contain git repo code
5. Type command source ~/venv/bin/activate
6. Type command **python main.py** and let this terminal open
7. Open a new terminal and using terminal go to particular folder that contain git repo code
8. Type command **python price.py** and let this terminal open

9. Now go to http://localhost:5601 this will open kibana
10. If you have all softwares tools installed you will see kibana working and results being populated
11. If you want to stop at any point close both terminals the dashboard will stop getting update