**INSTRUCTION**

## Installing environment packages:

Kindly install the python modules using pip

* pip install Flask
* pip install flask-jsonpify
* pip install Flask-Cache
* pip install --upgrade requests-cache
* pip install multiprocess
* pip install pyramid
* pip install unittest

## How to run the Api:

1. Download/ Clone the package in your desktop from <https://github.com/DataArun/Programming-Assignment.git>.
2. The code is written in Python 3+ .
3. Make sure you install all the packages mentioned above to make it error free because of the missing package.
4. Open command prompt from Windows by pressing (Win Key + R) and typing cmd and pressing enter.
5. Get the path of your python.exe file usually it will be in C:\Python\_V(Version)\python.exe
6. Also get the path of the python code script. It is nothing but the path where you downloaded the file so it the path/Currency.py
7. Or if there is any other way which the team can start the application it will be fine, but preferred method is through command prompt as it will be quicker.
8. In command prompt window enter the python path followed by the script path and press enter. This will initiate the API to be running in the port 127.0.0.1:5002
9. You can access the API in web browser or software like postman.
10. The tasks are in the given format.

* Task 1 : 127.0.0.1:5002/Date/2017-01-02
* Task 2 : 127.0.0.1:5002/CurrencyRange/2017-01-02/eur/sgd
* Task 3 : 127.0.0.1:5002/Daterange/2012-12-01/2013-12-05/sgd

1. The data files are stored under Data folder in the root directory. You can add the files in the directory. The data followed is yyyy-mm-dd.txt with the mentioned columns in the task.
2. Caching ability is enabled
3. Multiprocessing ability is enabled to perform better when the date range is huge.

## How to run the test cases:

Navigate to the Test folder from the root directory and open command prompt in that directory.

Call the test\_currency.py file in the command prompt to execute the test cases.