

Finalysis

Developer Exercise

Please complete this fictitious exercise to the best of your ability and understanding.

We need a way to determine if Apple Stock is correlated with the location of the International Space Station (ISS). Using Python, build a simple RESTful server that calculates a correlation matrix between Apple Stock and the ISS.

To get the current location for the ISS, see
<http://open-notify.org/Open-Notify-API/ISS-Location-Now/>

Intraday Historical Data can be found here:

<https://firstratedata.com/free-intraday-data>

Feel free to use alternative sources of intraday data if desired.

On request, the application should deliver a correlation matrix for a 5 day period that ends on the last market date closest to the date requested. For example, if a request is made on Sunday, the last market date is Friday. Output should default to CSV with an optional parameter for HTML.

We are looking for production quality code, well crafted comments, and efficient operations. No additional information will be given. Please spend no more than a few hours building this.

Once complete, reply to the email with a *.zip file that includes everything to execute the code included. Please include a README file with instructions.