Task: To be able to take asteroid dimensions & properties and generate the corresponding light curve from it

“The program”: The combined code developed, that is able of completing the above task

“The report”: The written document that is to be submitted as part of the Hackathon submission

“The team”: The hackathon team

Specifications

* The program shall be accompanied by a report containing all the required information as laid out by the Hackathon guidelines
* The program shall have the minimum following inputs
  + Rotational period
  + Rotational axis with respect to the asteroid’s geometry
  + Relative position with respect to the Sun
  + Reflectivity
* The program shall have enough inputs to specify the geometry of at least one non-spherical asteroid
* All deliverables shall be completed by the end of the weekend

Constraints

* The default programming language should be python, with code written in other languages only when explicitly required
* The program should be open source, and available by GitHub
* All documentation should be stored and available to the team via Google Drive
* All content that is to be submitted as part of the competition must be created over the specified Hackathon weekend