Student Name : Evan Mockler

Project Repo URL : 20046295

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| Grade Band | Combined Knowledge | Networking Technologies | IoT Solution | Communication |
| Base | Using programming to create python scripts in location.py & planet.py files. Computer Systems knowledge required to incorporate Blynk and Twitter for the networking aspect. | Pi is connected to router wirelessly. | Finding my mobile devices location is paramount to calculating the current viewing angle of a respective planet. | Read me and video provided. |
| Good | Bash scripting, crontab and protocol messaging picked up from computer systems. Programming fundamentals utilised in creating multiple python scripts. How to set up a repository and utilize commits & versions picked up from ICT Skills. | Blynk uses customized tcp/ip protocol when sending messaging between devices. In this case from the phone to the raspberry Pi. | The GPS data from Blynk is successfully brought to the Pi where its used to calculate current viewing angles which are shown on the LED display and also sent to Twitter. | Repository on git sets about how to set the app up on a pi. |
| Excellent | The advanced knowledge I utilized would have been in using a wrapper bash script to create a parent process to house the child python scripts and then call environmental variables where needed. |  | In this form the planetfind app can be easily used along with a telescope to view respective planets. Going forward a further solution could incorporate a programmable telescope to automatically move to required viewing angles. | Inclusion of a demo that shows how the app works from to boot to shutting in down having run through the features. |
| Outstanding |  |  |  |  |

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Additional Comments:

