

Instructions

 Restart

Planetary Weight Calculator

Mars is not the only planet in our solar system with its own unique gravity. In fact, each planet has a different gravitational constant, which affects how much an object would weigh on that planet. Below is a list of the constants for each planet compared to Earth's gravity:

- Mercury: 37.6%
- Venus: 88.9%
- Mars: 37.8%
- Jupiter: 236.0%
- Saturn: 108.1%
- Uranus: 81.5%
- Neptune: 114.0%

Write a Python program that prompts an Earthling to enter their weight on Earth and then to enter the name of a planet in our solar system. The program should then use if statements to find the correct gravitational constant for the selected planet and calculate the person's weight on that planet. Finally, the program should print the calculated weight, rounded to 2 decimal places.

Sample Run

```
$ python planetaryweight.py  
  
Enter a weight on Earth: 120  
  
Enter a planet: Mars  
  
The equivalent weight on Mars: 45.36
```

Sample Run

```
$ python planetaryweight.py  
  
Enter a weight on Earth: 150  
  
Enter a planet: Jupiter  
  
The equivalent weight on Jupiter: 354.0
```