

Lab 03

A Long, Heavy Program

Objective:

Create a program which prompts the user to enter a weight assumed in pounds, a height assumed in feet, and then it converts both into several different measures.

- The different weight measures from pounds are:
 - Kilogram – 0.456
 - Stone – 0.071
 - Slug – 0.031
 - Pennyweight – 291.667
 - Grain – 7,000
- The different height measures from feet are:
 - Meter – 0.305
 - Hand – 3
 - Furlong – 0.002
 - Cubit – 0.667
 - Rack Unit – 6.857

Example Dialog:

```
Welcome to the weight and height converter 9000!  
Enter a weight in pounds  
1  
Enter a height in feet  
1  
1.0lbs is 0.456 kilograms  
1.0lbs is 0.071 stones  
1.0lbs is 0.031 slugs  
1.0lbs is 291.667 pennyweights  
1.0lbs is 7000.0 grains  
1.0feet is 0.305 meters  
1.0feet is 3.0 hands  
1.0feet is 0.002 furlongs  
1.0feet is 0.667 cubits  
1.0feet is 6.857 rack units  
Goodbye!
```

Lab Report Questions:

1. What is it called when a primitive type is converted to another type?
2. What happens to a double when it is converted to an integer?

Finally:

Upload the .java file to the dropbox