

5)

```
distance, velocity, mass = ParticleInfo("MW_000.txt", 2.0, 100) # calls the function

print("Distance: " + str(distance))
print("Velocity: " + str(velocity))
print("Mass: " + str(mass))

lightyears = np.around(distance.to(u.lyr), 3)
print(str(lightyears))
```

```
In [12]: runfile('C:/Users/krist/ASTR400B/Homework2/ParticleProperties.py', wdir='C:/Users/
krist/ASTR400B/Homework2')
Reloaded modules: ReadFile
Distance: 4.245 kpc
Velocity: 312.135 km / s
Mass: 1000000.0 solMass
13845.338 lyr
```