jupyter CenterOfMass Last Checkpoint: 4 minutes ago (autosaved)

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Code

In [ ]:
```
1
```

In [306]:
```
"""Quesition 2"""
print ("Question 3 Results")
# Calculate the seperation between MW and  M31 position
SepP = np.round(np.sqrt(np.sum((MWP - M31P)**2)),3)*u.kpc
# Calculate the seperation between MW and  M31 velocity
SepV = np.round(np.sqrt(np.sum((MWV - M31V)**2)),3)*u.km/u.s
# Print results
print ("The magnitude of current seperation of position between MW and M31 is: %s\nThe magnitude of current seperation of vel


"""Question 3"""
# Calculate the seperation between M33 and  M31 position
SepP = np.round(np.sqrt(np.sum((M33P - M31P)**2)),3)*u.kpc
# Calculate the seperation between M33 and  M31 velocity
SepV = np.round(np.sqrt(np.sum((M33V - M31V)**2)),3)*u.km/u.s
# Print results
print ("The magnitude of current seperation of position between M33 and M31 is: %s\nThe magnitude of current seperation of ve
```

```
Question 3 Results
The magnitude of current seperation of position between MW and M31 is: 769.817 kpc
The magnitude of current seperation of velocity between MW and M31 is: 117.162 km / s
The magnitude of current seperation of position between M33 and M31 is: 201.083 kpc
The magnitude of current seperation of velocity between M33 and M31 is: 199.37 km / s
```

Question 4

The iterative process it important be would like to examine how the center of mass of the two galaxies interact with one another.

In [ ]:
```
1
```