```
20
21
       r = craft.pos-Earth.pos
                                                          Force Calculation
22
       rhat = r/maq(r)
23
       Fgrav = -G*mEarth*mcraft/mag(r) **2*rhat
24
                                                     Newton's Second Law
25
       pcraft = pcraft+Fgrav*deltat
26
       craft.pos = craft.pos + pcraft/mcraft*deltat
                                                           Position Update
27
28
       trail.append(pos = craft.pos)
29
       t = t + deltat
30
```

31 print 'Craft final position: ', craft.pos, 'meters.'

19 while t < tf: