```
#Window setup
    scene.range=7E7
    #Objects
    Earth = sphere(pos=vector(0,0,0), radius=6.4e6)
    Satellite = sphere(pos=vector(7*Earth.radius, 0,0), radius=1e6)
    #Parameters and Initial Conditions
    mSatellite = 1
    pSatellite = vector(0,5000,0)
    #Time and time step
   t = 0
   tf = 60*60*24
    dt = 1
    #Calculation Loop
18 ▼ while t < tf:
        rate(10000)
        Fnet = vector(0,0,0)
        pSatellite = pSatellite + Fnet*dt
        Satellite.pos = Satellite.pos + (pSatellite/mSatellite)*dt
        t = t + dt
        #Earth Rotation (IGNORE)
        theta = 7.29e-5*dt
        Earth.rotate(angle=theta, axis=vector(0,0,1), origin=Earth.pos)
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