```python
#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
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)
```