Problem Set 1

In physics, a common useful equation for finding the position s of a body in linear motion at a given time t, based on its initial position s_0, initial velocity v_0, and rate of acceleration a, is the following:

$$s = s_0 + v_0 t + \frac{1}{2} a t^2$$

Write code to declare variables for s_0,v_0,a, and t, and then write the code to compute s on the basis of these values.