trajectory given: initial velocity=30[m/s], $\Theta = 45^{\circ}$, $x_0=0$ [m], $y_0=0$ [m], $a_g=9.81$ [$m*s^-2$], mass=2[kg], $\Delta t = 0.002$ [s], $C_d=0.02$ [$kg*m^-1$]

