Symbol	Importance	Value	Units	
a - acceleration	**d**v/**d**t	9.8...0	m/s^2	Variables
v - velocity	-**d**h/**d**t	0...50	m/s	
h - height		1000	m	
t - time		10	s	
g - gravity constant		9.8	m/s^2	Parameters
C - drag coefficient	Contribute to air drag coefficient K	0.0039	-	
S - area of crossection			m^2	
ρ - dencity of the air			kg/m^3	
m - skydiver's mass			kg	

v=180 [km/h] = 180 000/(60*60) [m/s] = 50 [m/s]

A = g-(C*S*ρ/2/m)*v^2

a=0; g=9.8; v=50; C*S*ρ/2/m = K

9.8=K*50*50 => K =9.8/2500=0.0039

v_1=0.95*50 = 47.5 [m/s]

1st differential equation:
dh(t)/dt = -v(t)

2nd differential equation:
a=dv(t)/dt = g- C*S*ρ/2/m*(v(t)^2)

Distance at which the skydiver will be in 10 sec after achieveing 95% speed limit.