```
while True:
sol = solve_ivp(kinetic_equation_of_one_step, t_span, variable_list_0, events=monitor, dense_output=True, max_step=0.05)
t = np.linspace(sol.t[0], sol.t[-1], num=100)
return_variable = sol.sol(t)
t_list = np.concatenate((t_list, t))
theta list = np.concatenate((theta list, return variable[0]))
theta_dot_list = np.concatenate((theta_dot_list, return_variable[1]))
phi_list = np.concatenate((phi_list, return_variable[2]))
phi_dot_list = np.concatenate((phi_dot_list, return_variable[3]))
current_t = t_list[-1]
current_variable_list = [theta_list[-1], theta_dot_list[-1], phi_list[-1], phi_dot_list[-1]]
if sol.status == 1:
    new_theta, new_theta_dot, new_phi, new_phi_dot = heelstrike_event_and_change_defination(t, current_variable_list)
    if current_t == t_span[-1]:
        break
    variable list 0 = [new theta, new theta dot, new phi, new phi dot]
    t span[0] = sol.t events[0][0] + 1e-5
else:
    break
```