Q3 pseudo-code:

Set initial parameters:

W, l, g, theta, t, m, dt

Create lists/arrays to track values

While loop for time:

Set x and y values to track in cartesian coordinates:

X=lsin(theta)

Y= l-lcos(theta)

F= -mgsin(theta)

W = w+(f/m)dt

Theta = theta + wdt

Iterate for time: t=t+dt

Append lists

Plot plots