Overview of code

So I start off defining all my variables and assumptions in the first section

Then I have two cases, the stroke case or wait case. there is an index that defines which is running called strokeindex.

Inside the stroke case, there are 3 separate cases, if all our conditions are met, the legs will accelerate the vehicle, if the conditions are not met, it is either moving according to projectile motion or just sitting on the bottom.

Once the one period of the leg motion has been completed, it takes the current time, sets it as the start of the wait period and switches the value of stroke index.

The wait period only has two options for motion, projectile motion or to just sit on the bottom.