CS-105 Assignment 5

Part I

I have the user input four numbers, x1, x2, y1, and y2. Then I set d=sqrt((x1-x2)^2+(y1-y2)^2) using the inputs the user provided. Then I display the answer with the command: disp(num2str(d));
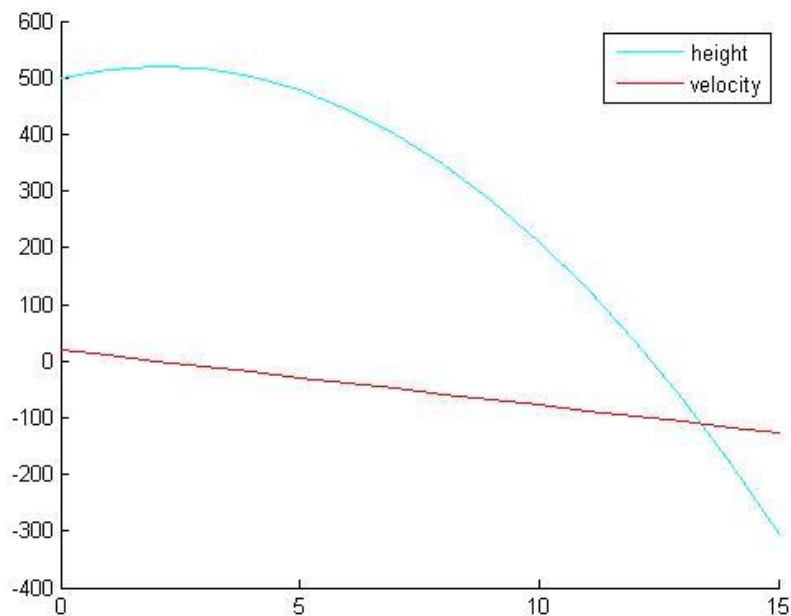
Part II

I have the user input two numbers, the initial height and the initial velocity of the ball. Then I create a vector, t=1:15, and type in the functions: $ht = .5.* (-9.81).* t. \wedge 2 + (v0).* t + h0$
and
$vt = (-9.81).* t + v0.$
Then, using the hold function, I plot the two curves on one figure.

I used 200 m for the height and 50 m/s for the velocity.

What I learned

I learned more about how to create a working script and how to create an interacting script. I think it was really interesting learning how to do this because I am able to interact with the user.