Name:	Period	Date:	
Lab 70-1 Falling Ball using Python. V2			
<b>Important:</b> Some of these steps should be done only the lab after logging out and logging back in again.	once. Don	n't do them again when you continue	
• Firefox > halverscience.net > Physics - Halverson the file. (Do once.)	> Python fo	For Physics > falling_ball.py Save	
• Move the file to Desktop > my_python. (Use mou once)	se to drag i	it from the Downloads folder.) (Do	
Run Terminal			
cd Desktop (Do every time after you log in.)			
cd my_python (Do every time after you log in.)			
python falling_ball.py (You should get a ball	l that falls a	at constant speed)	
cp falling_ball.py falling_ball 2.py (This makes a conce)	copy and no	ow you will modify the copy)(Do	
edit falling_ball 2.py (Do every time after you lo	og in.)		
Study the code.  1. How can you control the downward speed of the ball?			
2. In falling_ball2.py, give the ball a horizontal veloci by typing "python fallingball2.py" in the Terminal. S		1 1	
3. Alter falling_ball 2.py to give it an initial y velocity of 0.5 pixels/looptime <sup>2</sup> and show the result.	<sup>,</sup> componer	nt of 0 pixels/looptime and a gravity  GET STAMP>	
4. Alter falling_ball2.py to make the ball bounce.		GET STAMP>	
5. Change the code so that it will show the path the ba	ıll takes. W	What is this shape called?	
6. Alter falling_ball2.py to make each bounce lose 25%	% of the end	ergy per bounce.  GET STAMP>	
7. Extra time? Extra credit? Alter falling_ball2.py to of the window, then bounce from the left edge of the w		ball bounce back from the right edge GET STAMP (optional)>	