



## Python OOP Mid-term Presentation

For the mid-term presentations you will need to program a Python Class. This class should represent a real-life object such as a person, airplane, bird, animals and etc. I recommend you stick with video game objects like, swords, characters, bombs, arrows and etc. Whatever you pick it must be appropriate so no guns, bad language and etc. In class I will show you an example of a bomb. Below are the requirements...

- 1) Your class should have an `__init__` function which will initialize the object with its attributes. Your object must have at least 3 attributes. For example, if you decide to do a bomb then some sample attributes would be color, fuse time and size.
- 2) Your class must have a description function which prints out a description of the object. So, it will be something like this...  

```
def description(self):  
    print("I am a bomb with a fuse time of " + str(this.fuse_time))
```
- 3) Your class must have a function to draw the object in the processing  

```
def draw_object(self):  
    <draw the object>
```
- 4) Your class must have at least one function to animate the object. Please see the example I gave in class. In my case I make the bomb pulse.

In the bomb example above, the bomb will pulsate while the fuse is still going and once the fuse time is up the bomb explodes. All of this animation and visuals is taken care of by the `draw_object` and the `animate` functions.

Of course, you are free to name your Class, variables and functions however you like. Also remember that you could go above and beyond and add even more features to the object. In the bomb example I could have sound effects and images, but we haven't learned that yet.

For the presentation here are the requirements...

- 1) You will have about 4 minutes to share your screen and present your Python Class
- 2) You will start but quickly going over your code and explaining what it does
- 3) You will then run your code and show the final result

**YOU MUST HAVE YOUR WEBCAM ON DURING THE PRESENTATION. EVEN WHEN YOU ARE NOT PRESENTING, PLEASE HAVE YOUR WEBCAM ON.**

**THIS PROJECT IS DUE 5 MINUTES BEFORE THE START OF THE PRESENTATIONS ON DECEMBER 3, 2022. YOU DO NOT NEED TO HAND IT IN TO ME SINCE YOU WILL BE PRESENTING IT ANYWAYS.**