1. Midterm (10%)

From Unit 1-5

<https://learn.datascience.berkeley.edu/mod/quiz/view.php?id=14342>

All work done in Jupyter Notebook

1. <https://itunes.apple.com/us/app/isvc/id830880294?mt=8>

<https://play.google.com/store/apps/details?id=edu.berkeley.datascience>

1. Project 1 (20%)

The users will interact with you program via terminal/shell

Three documents due before your class on 7/12 or 7/14

Proposal (10%)

Code (80%)

Reflective summary (10%)

You will demo your progress in a breakout room next class (7/5 or 7/7)

300-500 lines (750 max)

Relection:

Submit a 1-page reflection with your code. Instructors will read your refelction before grading your project. Tell us how to use your project. Discuss challenges you faced and how you overcome them.

1. What is a class:

It is a template you use to create a new type of objects

class Drone:

attributes - (variables)

methods - (functions )

e.g.

class Drone:

power\_system = “”Butterfly”

def fly(self):

return “The drone is flyig”

def upgrade\_powersystem(self, new\_system): # we want our function to modify our class variable

d.power\_system = new\_system # we cant do this because there is no d yet.

self.power\_system = new\_system # this is the right way because this will let python know that we are doing at d it self. Every function you defined inside a class will have a “self” parameter first!

d = Drone()

d2 = Drone()

print(d.fly())

print(d2.power\_system)

list: many types, mutable ­

range: only integers

tuples: not mutable

dictionaries: take indices other than integers, unordered, they have “keys” and “values”

you can put lists inside lists