**Andrew Wang**

**Homework 11**

1. **Code:**

################

# Author: Andrew Wang

# Date: 12/01/2019

# This programs allows user to input information of their pet and prints it out using class

#################

#Creates the class Pet

class Pet:

def \_\_init\_\_(self, name, animal\_type, age):

self.\_\_name = name

self.\_\_animal\_type = animal\_type

self.\_\_age = age

def set\_name(self, name):

self.\_\_name = name

return self.\_\_name

def set\_animal\_type(self, animal\_type):

self.\_\_animal\_type = animal\_type

return self.\_\_animal\_type

def set\_age(self, age):

self.\_\_age = age

return self.\_\_age

def get\_name(self):

return self.\_\_name

def get\_animal\_type(self):

return self.\_\_animal\_type

def get\_age(self):

return self.\_\_age

#Main function

def main():

#Allows user to input information of the pet

name = input(str('Enter the name of the pet: '))

animal\_type = input(str('Enter the type of animal: '))

age = input(str('Enter the age of the pet: '))

pet = Pet(name, animal\_type, age)

print('\nHere is the data that you entered:')

print('Pet name:', pet.get\_name())

print('Animal type:', pet.get\_animal\_type())

print('Age of pet:', pet.get\_age())

#Calling main function

main()

**Output:**

**A screenshot of a cell phone

Description automatically generated**

1. **Code:**

################

# Author: Andrew Wang

# Date: 12/01/2019

# This programs stimulates a car accelerate and break with increasing and decreaing speed

#################

#Creates the class Car

class Car:

def \_\_init\_\_(self, year\_model, make):

self.\_\_year\_model = year\_model

self.\_\_make = make

self.\_\_speed = 0

def accerlate(self):

self.\_\_speed += 5

return self.\_\_speed

def brake(self):

self.\_\_speed -= 5

return self.\_\_speed

def get\_speed(self):

return self.\_\_speed

#Main function

def main():

car = Car(0,0)

print('Car is accelerating:')

for i in range(5):

car.accerlate()

print('Current speed:',car.get\_speed())

print('\nCar is braking:')

for i in range(5):

car.brake()

print('Current speed:', car.get\_speed())

#Calls main function

main()

**Output:**

**A screenshot of a cell phone

Description automatically generated**