class Automobile:

def \_\_init\_\_(self):

self.\_make = ''

self.\_model = ''

self.\_year = 0

self.\_color = ''

self.\_mileage = 0

def addVehicle(self):

try:

self.\_make = input('Enter car make: ')

self.\_model = input('Enter car model: ')

self.\_year = int(input('Enter car year: '))

self.\_color = input('Enter car color: ')

self.\_mileage = int(input('Enter car mileage: '))

return True

except ValueError:

print('Please try entering car information again using only whole numbers for mileage and year')

return False

def \_\_str\_\_(self):

return '\t'.join(str(x) for x in [self.\_make, self.\_model, self.\_year, self.\_color, self.\_mileage])

class Inventory:

def \_\_init\_\_(self):

self.vehicles = []

def addVehicle(self):

vehicle = Automobile()

if vehicle.addVehicle() == True:

self.vehicles.append(vehicle)

print ()

print('This car has been added')

def viewInventory(self):

print('\t'.join(['','Make', 'Model','Year', 'Color', 'Mileage']))

for idx, vehicle in enumerate(self.vehicles) :

print(idx + 1, end='\t')

print(vehicle)

inventory = Inventory()

while True:

print('\n======= Car Inventory System =======\n')

print('=> 1 Add Car')

print('=> 2 Delete Car')

print('=> 3 View Inventory')

print('=> 4 Update Car')

print('=> 5 Export Inventory')

print('=> 6 Quit')

userInput=input('Please choose from one of the above options: ')

if userInput=="1":

inventory.addVehicle()

elif userInput=='2':

if len(inventory.vehicles) < 1:

print('Sorry there are no car currently in inventory')

continue

inventory.viewInventory()

item = int(input('Please enter the number associated with the car to be removed: '))

if item - 1 > len(inventory.vehicles):

print('This is an invalid number')

else:

inventory.vehicles.remove(inventory.vehicles[item - 1])

print ()

print('This car has been removed')

elif userInput == '3':

if len(inventory.vehicles) < 1:

print('Sorry there are no car currently in inventory')

continue

inventory.viewInventory()

elif userInput == '4':

if len(inventory.vehicles) < 1:

print('Sorry there are no car currently in inventory')

continue

inventory.viewInventory()

item = int(input('Please enter the number associated with the car to be updated: '))

if item - 1 > len(inventory.vehicles):

print('This is an invalid number')

else:

automobile = Automobile()

if automobile.addVehicle() == True :

inventory.vehicles.remove(inventory.vehicles[item - 1])

inventory.vehicles.insert(item - 1, automobile)

print ()

print('This car has been updated')

elif userInput == '5':

if len(inventory.vehicles) < 1:

print('Sorry there are no car currently in inventory')

continue

f = open('vehicle\_inventory.txt', 'w')

f.write('\t'.join(['Make', 'Model','Year', 'Color', 'Mileage']))

f.write('\n')

for vechicle in inventory.vehicles:

f.write('%s\n' %vechicle)

f.close()

print('The car inventory has been exported to a file')

elif userInput == '6':

print('Goodbye')

break

else:

print('This is an invalid input. Please try again.')