



González, Ian.

Documentación
Trabajo con tipos de
datos compuestos

AWS Re/Start
ARBUE-12

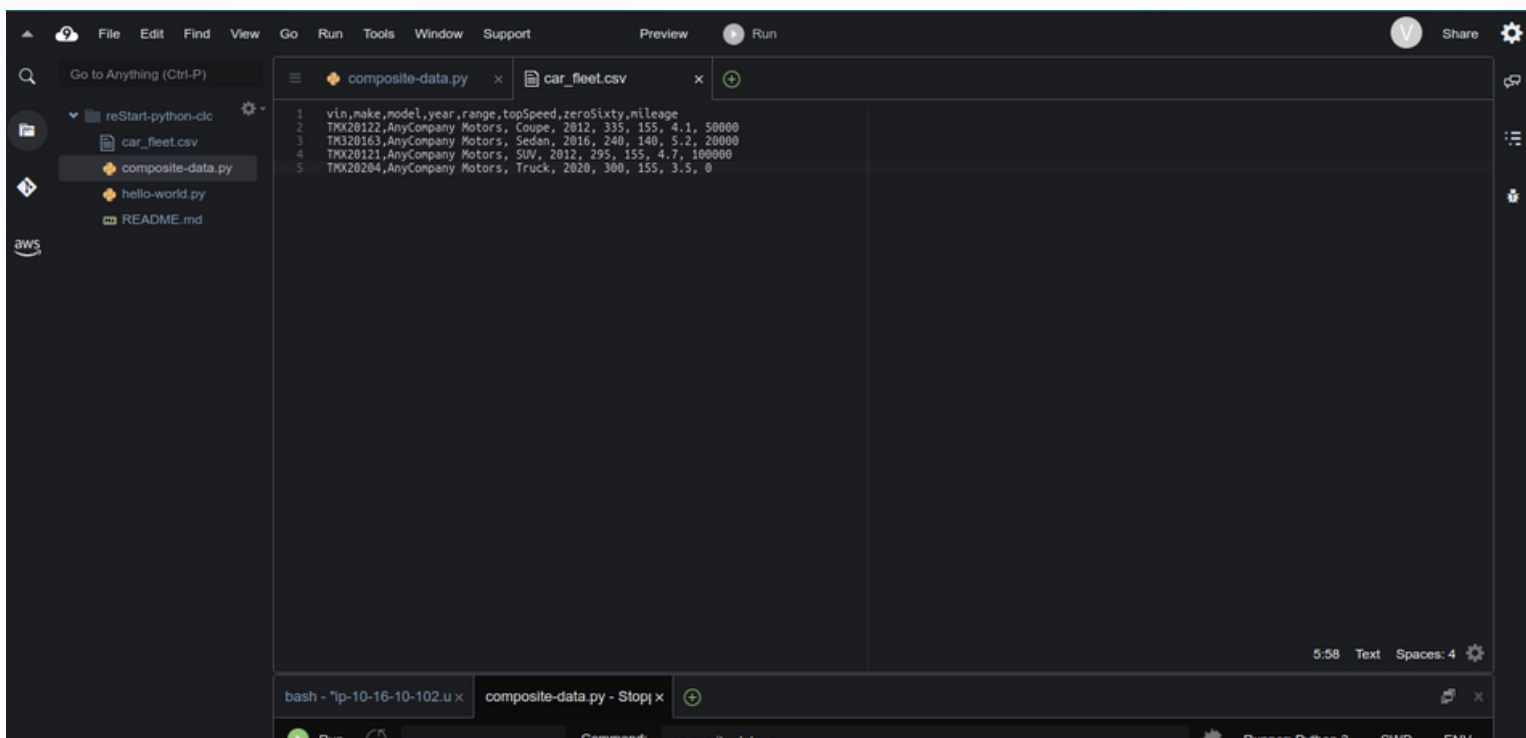
113- [PF] - Lab

Tipos de datos compuestos

Información general sobre el laboratorio:

- Un tipo de datos compuesto es cualquier tipo de datos que comprende tipos de datos primitivos.

Creación de datos de un inventario de vehículos

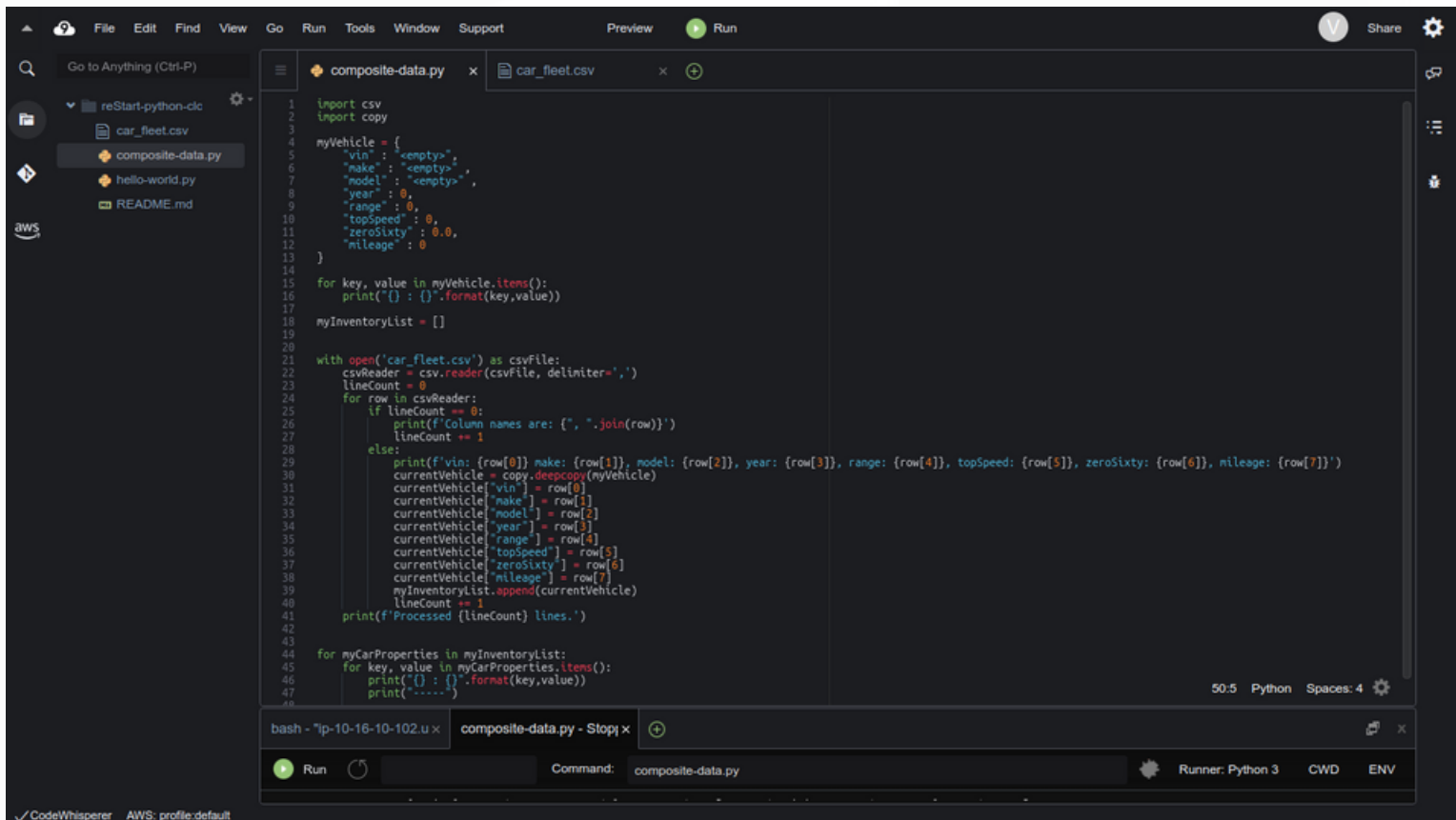


The screenshot shows a code editor with two tabs: `composite-data.py` and `car_fleet.csv`. The `car_fleet.csv` tab is active, displaying the following data:

vin	make	model	year	range	topSpeed	zeroSixty	mileage
TKX20122	AnyCompany Motors	Coupe	2012	335	155	4.1	50000
TKX20163	AnyCompany Motors	Sedan	2016	240	140	5.2	20000
TKX20121	AnyCompany Motors	SUV	2012	295	155	4.7	100000
TKX20204	AnyCompany Motors	Truck	2020	300	155	3.5	0

The editor also shows a file explorer on the left with files like `reStart-python-cls`, `car_fleet.csv`, `composite-data.py`, `hello-world.py`, and `README.md`. The bottom status bar indicates the file is a text file with 4 spaces.

Creación de un programa de inventario de vehículos



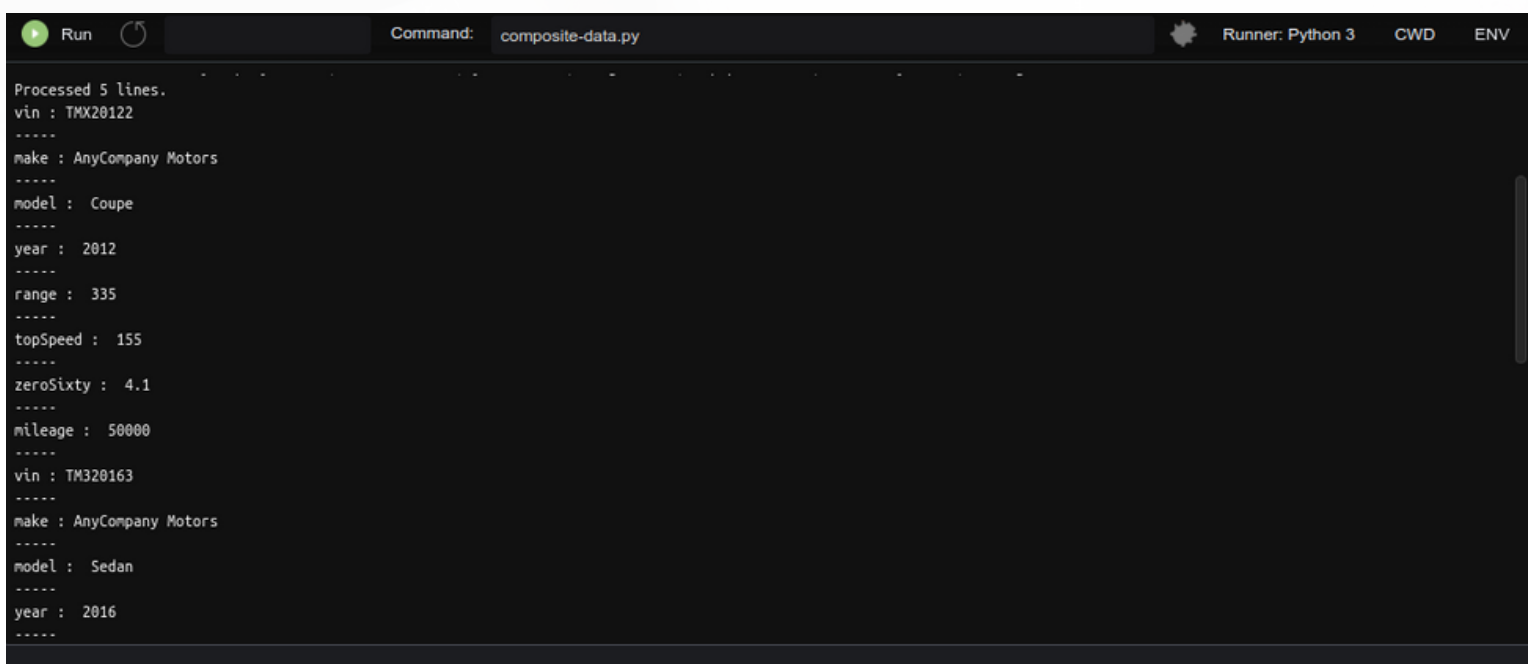
```
1 import csv
2 import copy
3
4 myVehicle = {
5     "vin": "<empty>",
6     "make": "<empty>",
7     "model": "<empty>",
8     "year": 0,
9     "range": 0,
10    "topSpeed": 0,
11    "zeroSixty": 0.0,
12    "mileage": 0
13 }
14
15 for key, value in myVehicle.items():
16     print("{} : {}".format(key,value))
17
18 myInventoryList = []
19
20
21 with open('car_fleet.csv') as csvFile:
22     csvReader = csv.reader(csvFile, delimiter=',')
23     lineCount = 0
24     for row in csvReader:
25         if lineCount == 0:
26             print(f'Column names are: {", ".join(row)}')
27             lineCount += 1
28         else:
29             print(f'vin: {row[0]} make: {row[1]}, model: {row[2]}, year: {row[3]}, range: {row[4]}, topSpeed: {row[5]}, zeroSixty: {row[6]}, mileage: {row[7]}')
30             currentVehicle = copy.deepcopy(myVehicle)
31             currentVehicle["vin"] = row[0]
32             currentVehicle["make"] = row[1]
33             currentVehicle["model"] = row[2]
34             currentVehicle["year"] = row[3]
35             currentVehicle["range"] = row[4]
36             currentVehicle["topSpeed"] = row[5]
37             currentVehicle["zeroSixty"] = row[6]
38             currentVehicle["mileage"] = row[7]
39             myInventoryList.append(currentVehicle)
40             lineCount += 1
41     print(f'Processed {lineCount} lines.')
42
43
44 for myCarProperties in myInventoryList:
45     for key, value in myCarProperties.items():
46         print("{} : {}".format(key,value))
47     print("-----")
48
```

50:5 Python Spaces: 4

bash - "ip-10-16-10-102.u x composite-data.py - Stop x

Run Command: composite-data.py Runner: Python 3 CWD ENV

Impresión del inventario de vehículos



```
Processed 5 lines.
vin : TMX20122
-----
make : AnyCompany Motors
-----
model : Coupe
-----
year : 2012
-----
range : 335
-----
topSpeed : 155
-----
zeroSixty : 4.1
-----
mileage : 50000
-----
vin : TM320163
-----
make : AnyCompany Motors
-----
model : Sedan
-----
year : 2016
-----
```