

DATE	10 November 2022
TEAM ID	PNT2022TMID10102
PROJECT NAME	Real-Time River Water Quality Monitoring and Control System

DEVELOP A PYTHON SCRIPT:

The screenshot shows the PyCharm IDE with a project named 'MyProject'. The file 'Car.py' is open in the editor. The code defines a 'Car' class with attributes 'odometer' and 'time', and methods 'accelerate', 'brake', and 'average_speed'. A main loop is implemented using 'if __name__ == '__main__':', which creates a 'Car' object, prints a message, and enters a 'while True:' loop. In this loop, it prompts the user for an action ('What should I do? [A]ccelerate, [B]rake, show [O]dometer, or show average [S]peed?') and processes the input. The output window shows the execution of the script, displaying the prompts and the car's response.

```

22 self.time := 0.
23
24     return self.odometer / self.time
25
26 if __name__ == '__main__':
27
28     my_car = Car()
29     print("I'm a car!")
30
31     while True:
32         action = input("What should I do? [A]ccelerate, [B]rake,
33                        show [O]dometer, or show average [S]peed?")
34         if action not in "ABOS" or len(action) != 1:

```

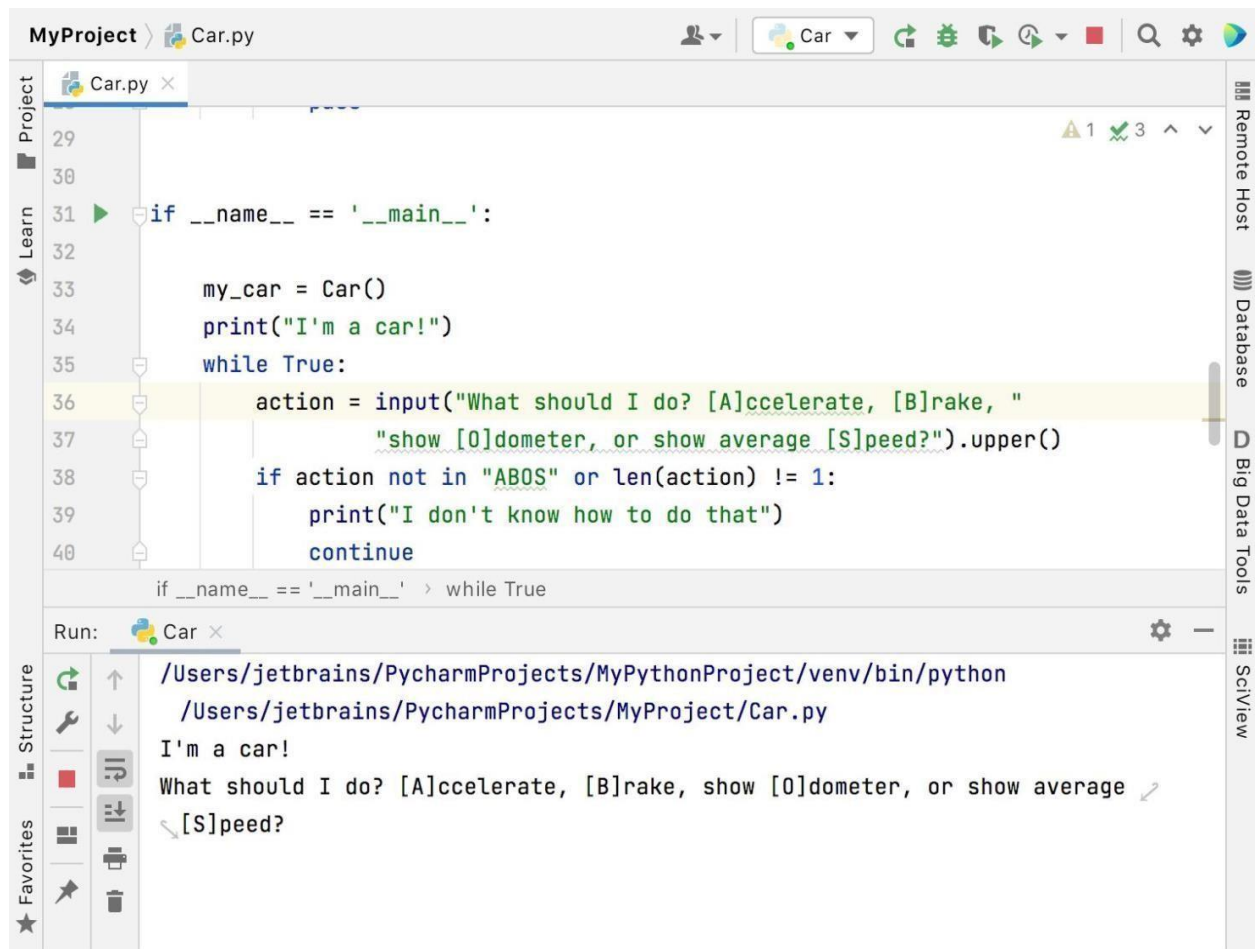
Run: Car

```

What should I do? [A]ccelerate, [B]rake, show [O]dometer, or show average [S]peed?a
I'm going 5 kph!
What should I do? [A]ccelerate, [B]rake, show [O]dometer, or show average [S]peed?s
The car's average speed was 5.0 kph
I'm going 5 kph!
What should I do? [A]ccelerate, [B]rake, show [O]dometer, or show average [S]peed?

```

PEP 8: W391 blank line at end of file LF UTF-8 4 spaces Python 3.6 (MyProject)



IBM CLOUD DATA PUBLICATION:

Your virtual data can be added to Watson™ Knowledge Catalog catalogues. Data Virtualization can be set up by an administrator to automatically publish every virtual object created in the user interface to a specified primary catalogue.

Your virtual data can be made available to a catalogue such that:

- Use global search to arrange, categorise, and locate the published data assets.
- By enabling policy enforcement in Data, you can control the virtual data asset and subject it to data protection law
- Go to the Service settings page.

- Select the Enforce publishing to a regulated catalogue check box under the Governance tab.

You are presented with a list of controlled catalogues to which you have Admin access. A governed catalogue must be chosen as your primary catalogue. Setting a main catalogue causes all

IBM Cloud Pak for Data All Search Upgrade 2298608 - GuobinJ Zhao's... G2

Data Virtualization / cqwwu-devstable-0621

Service settings

General **Governance** Scaling settings Scaling history Access

Enforcement

Turning policy and publishing enforcement on or off will impact where your objects can be published to and whether they will be governed. If you choose to enforce publishing, you must select a governed catalog as the primary catalog.

Enforce policies within Data Virtualization ☒ On

Enforce publishing to a governed catalog ☒ On

Select a governed catalog as your primary catalog

All virtual objects will be published to the selected catalog and will be governed through the Watson Knowledge Catalog service. You can choose one of the following governed catalogs that you owned.

Find catalog by Name, Owner, Description

Catalog name	Owner	Date created	Description
<input checked="" type="radio"/> wkc0	IBMid-6610020D12	Jun 11, 2021	
<input type="radio"/> wkc1	IBMid-6610020D12	Jun 11, 2021	

You are presented with a list of controlled catalogues to which you have Admin access. A governed catalogue must be chosen as your primary catalogue. Setting a main catalogue causes all

1. On the service menu, click Virtualization > Virtualized data.
2. After deciding which virtual objects to publish, click Publish to catalog.

Review cart and virtualize tables

Empty cart

Back

Virtualize

Assign to

☐ Project

☒ My virtualized data

Also publish to

☒ Publish to catalog

Select a catalog

wkc0

Governed

DevCatalog

Not governed

TestCatalog

Not governed

wkc1

Governed

Objects to be virtualized

Table	Schema	Source schema	Grouped tables
CONTEXT	DV_IBM... x v	AUDIT	1
SYSADMIN	DV_IBM... x v	AUDIT	1
VALIDATE	DV_IBM... x v	AUDIT	1