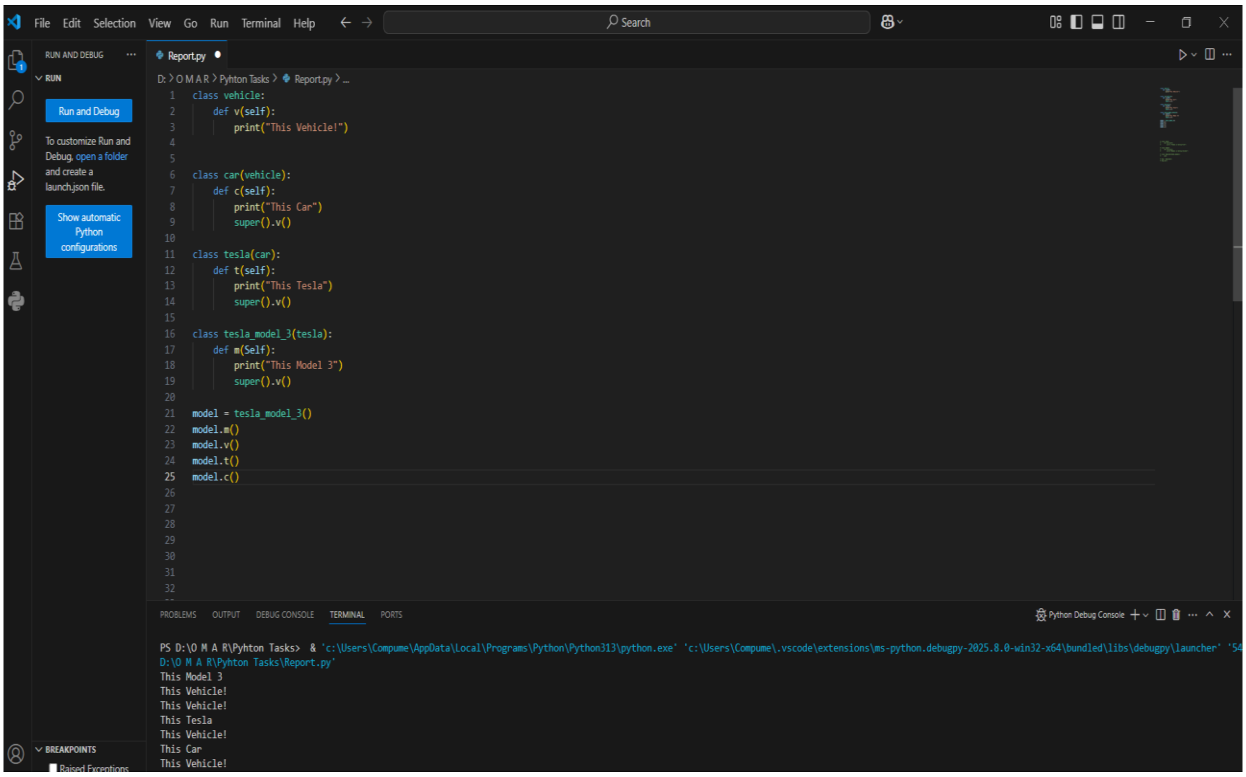
1- How super Function handle Multiple Inheritance ?

When a class inherits from multiple classes, the super() function does not just refer to the immediate parent.
Instead, it follows the Method Resolution Order **(**MRO**)** – a predefined order that Python uses to search for methods.

So when super () is called inside a method, Python checks the next class in the MRO chain.

Example:



```python
class vehicle:
    def v(self):
        print("This Vehicle!")


class car(vehicle):
    def c(self):
        print("This Car")
        super().v()

class tesla(car):
    def t(self):
        print("This Tesla")
        super().v()

class tesla_model_3(tesla):
    def m(Self):
        print("This Model 3")
        super().v()

model = tesla_model_3()
model.m()
model.v()
model.t()
model.c()
```

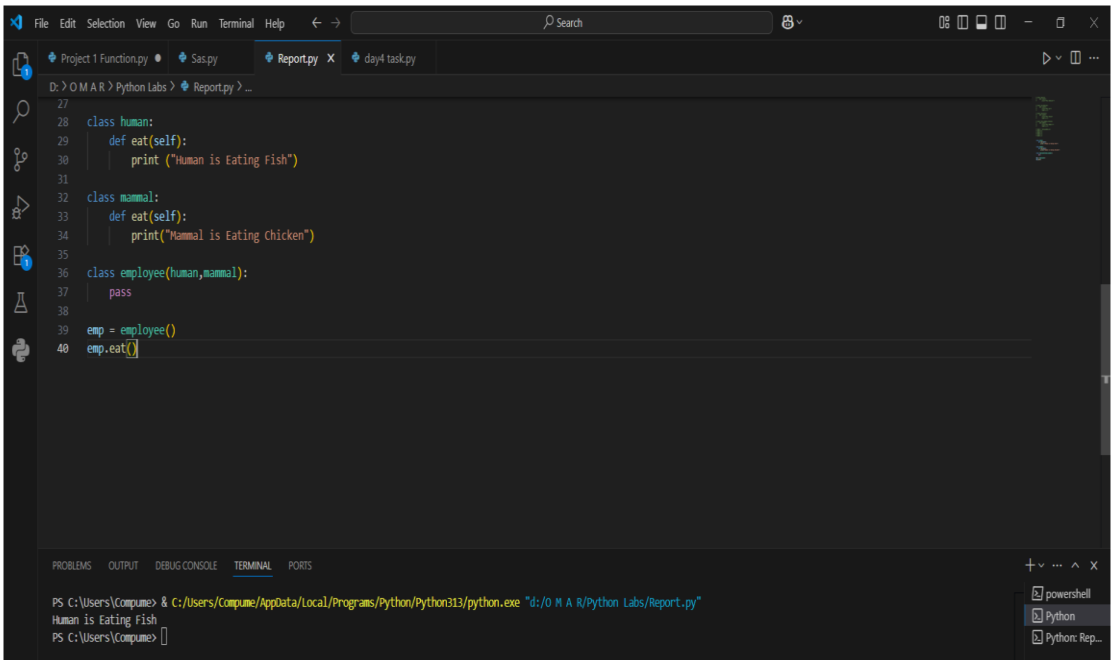
```
PS D:\O M A R\Pyhton Tasks>  & 'c:\Users\Compume\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\Compume\.vscode\extensions\ms-python.debugpy-2025.8.0-win32-x64\bundled\libs\debugpy\launcher' '54
D:\O M A R\Pyhton Tasks\Report.py'
This Model 3
This Vehicle!
This Vehicle!
This Tesla
This Vehicle!
This Car
This Vehicle!
```

2- . If Human and Mammal Have the same method like eat but with different Implementation. When Child[Employee] calls eat method how python handle this case ?

When two parent classes (Human , Mammal) define a method with the same name (eat)), and a child class (Employee) inherits from both, Python will call the version of eat() based on the Method Resolution Order (MRO).

In the example above, Employee (Human , Mammal) means human comes first in the MRO, so its eat() method is the one that gets executed

Example:


File Edit Selection View Go Run Terminal Help
Search
Project 1 Function.py
Sas.py
Report.py
day4 task.py
D: > O M A R > Python Labs > Report.py > ...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
Python
Python: Rep...

```python

class human:
    def eat(self):
        print ("Human is Eating Fish")

class mammal:
    def eat(self):
        print("Mammal is Eating Chicken")

class employee(human,mammal):
    pass

emp = employee()
emp.eat()
```

```
PS C:\Users\Compume> & C:/Users/Compume/AppData/Local/Programs/Python/Python313/python.exe "d:/O M A R/Python Labs/Report.py"
Human is Eating Fish
PS C:\Users\Compume>
```