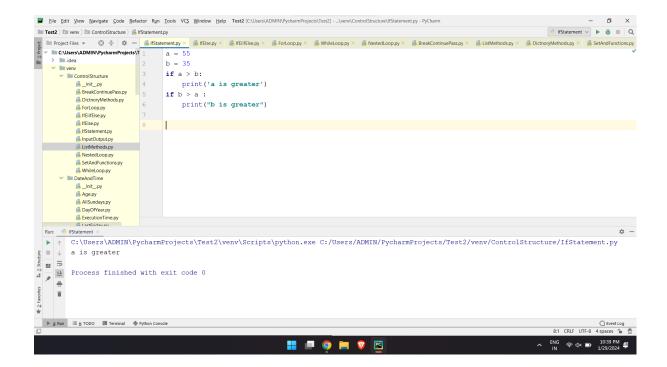
Name: Parth Nandedkar

Date: 29 Jan 2024 Topics: Python

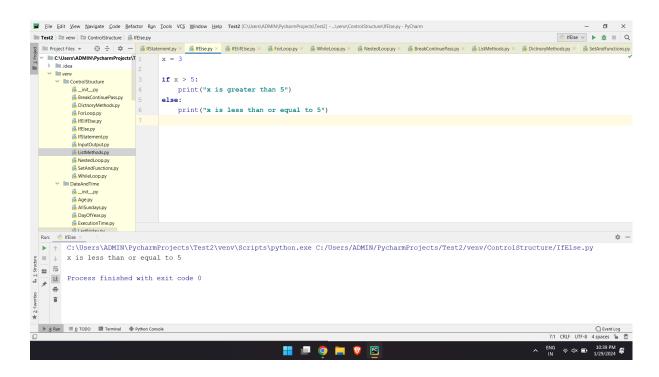
Batch: Data Engineering Batch-1

### **Control Structure:**

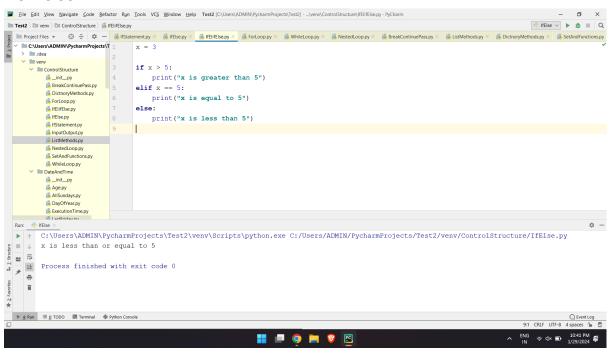
### If statement:



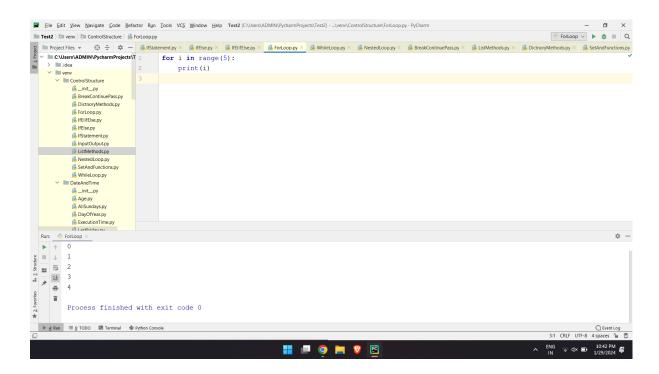
### If else:



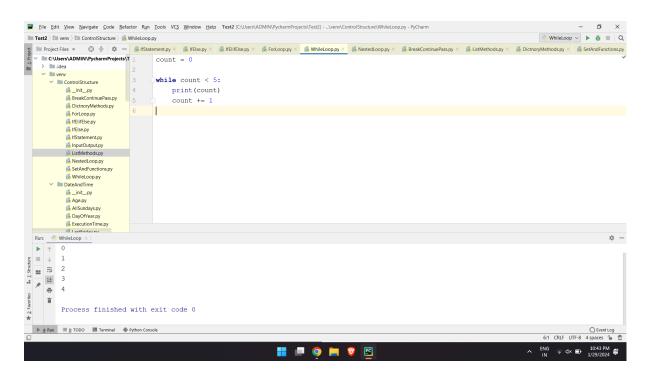
### If elif else:



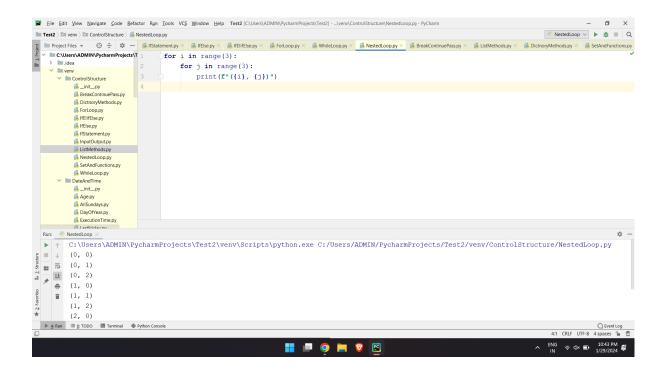
### For loop:



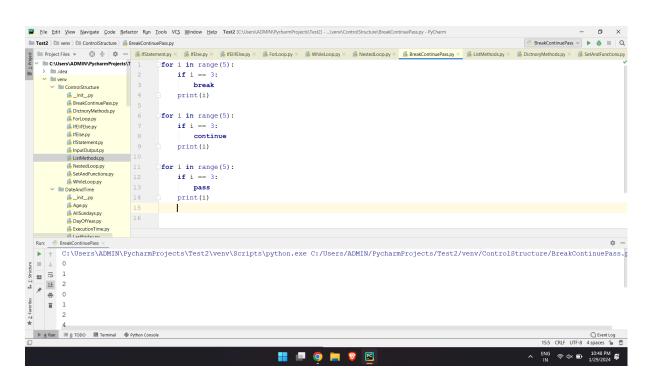
## While loop:



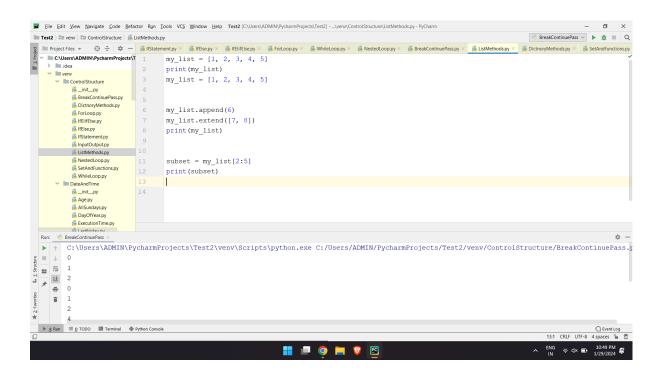
## Nested loop:



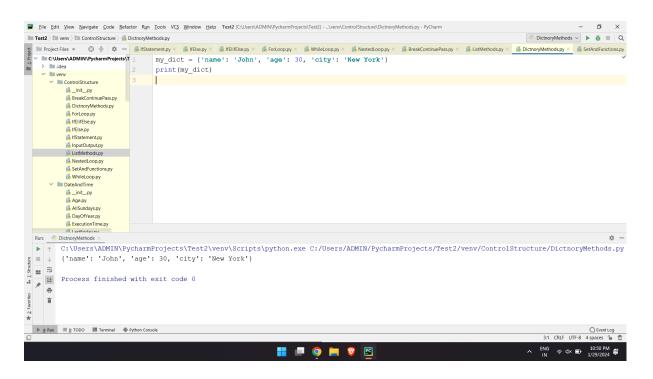
### Break, Continue, Pass:



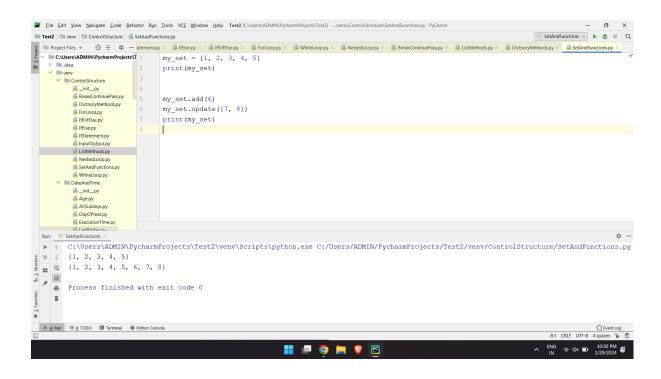
### List Methods:



# Dictionary Methods:



## Set functions:

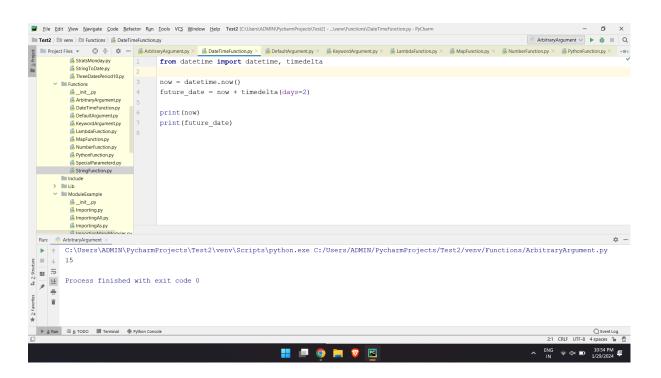


#### **Functions:**

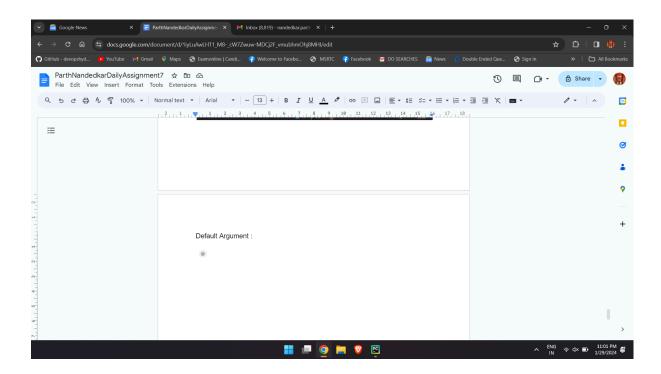
## Arbitrary constant:

```
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| StringfoOatery | StringfoOatery | StringfoOatery | StringfoOatery | StringfoOatery | StringfoOatery | Trectors | StringfoOatery | StringfoOatery | Trectors | StringfoOatery |
                                     LambdaFunction.py
                                 LambdaFunction.py
MapFunction.py
NumberFunction.py
PythonFunction.py
SpecialParameterd.py
StringFunction.py
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Lib
ModuleExample
                                    __init__py
__importing.py
                                    ImportingAll.py
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $ -
       Run: PArbitraryArgument
     > + C:\Users\ADMIN\PycharmProjects\Test2\venv\Scripts\python.exe C:/Users/ADMIN/PycharmProjects/Test2/venv/Functions/ArbitraryArgument.py
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     ▶ <u>4</u>; Run III <u>6</u>; TODO ☑ Terminal 🔮 Python Console
```

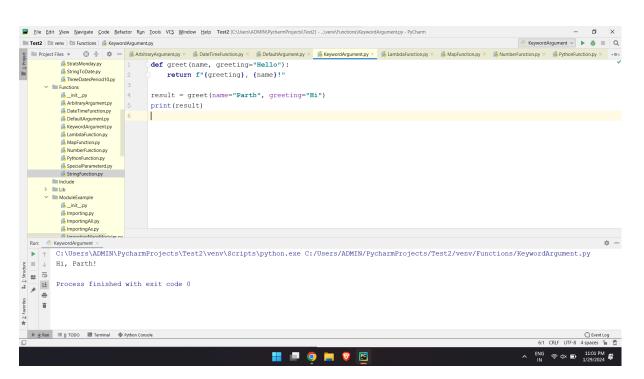
### **Datetime Functions:**



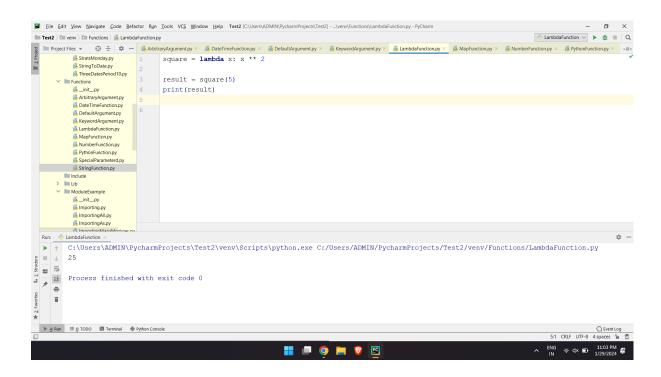
## Default Argument:



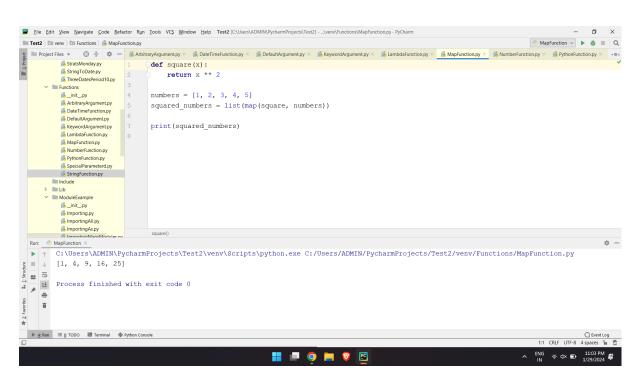
# Keyword argument:



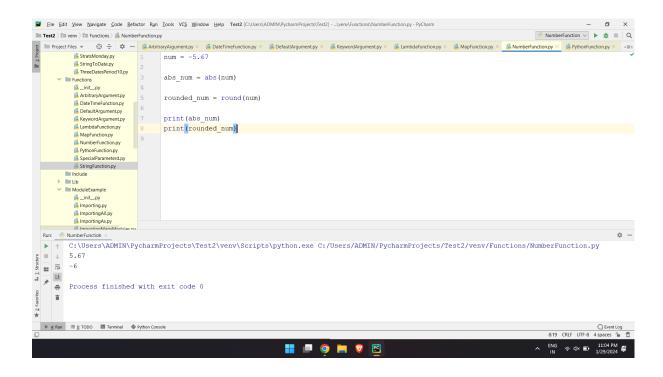
### Lambda function:



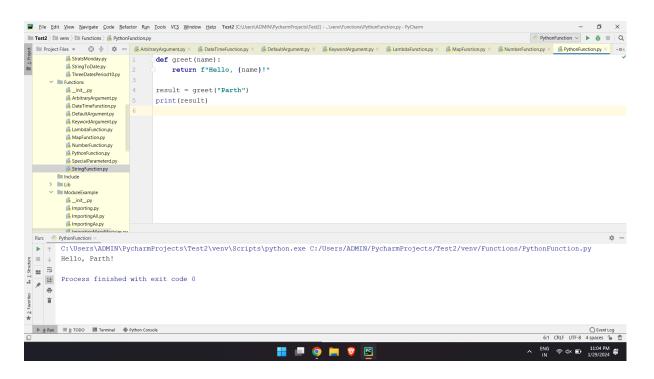
# Map function:



### Number function:



## Python Functions:



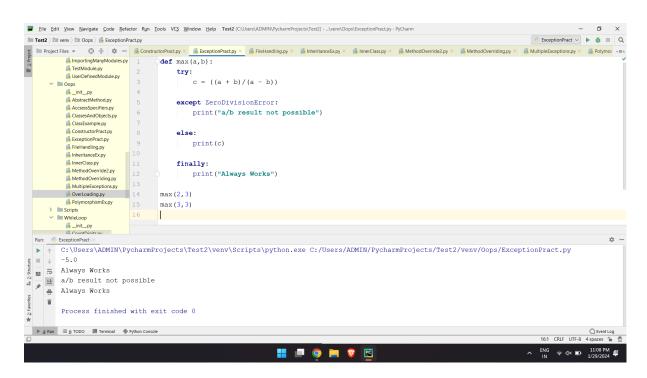
### OOPS:

#### Constructor:

```
File Edit View Navigate Code Befactor Run Tools VCS Window Help Test2 [C\Users\ADMIN\PycharmProjects\Test2] - ..\venv\Oops\ConstructorPract.py - PyCharm
                                                                                                                                                                             Property ConstructorPract ∨ ► # ■ Q
■ Test2 ⟩ ■ venv ⟩ ■ Oops ⟩ ‰ ConstructorPract.py
   Im Project Files ▼ ② 😤 💠 — 🚜 ConstructorPract.py × 🐉 ExceptionPract.py × 🐉 FileHandling.py × 🐉 InheritanceEx.py × 🐞 InheritanceEx.py × 🐞 MethodOverride2.py × 🐞 MethodOverriding.py × 🐞 MultipleExceptions.py × 🐉 Polymor -=1
                                         class Car:
             ImportingManyModules.py
                                              def __init__(self, make, model):
    self.make = make
                                           self.model = model
              AccsessSpecifiers.py
                                            mv car = Car(make="Tovota", model="Camrv")
                                           print(f"My car is a {my car.make} {my car.model}.")
              ClassExample.pv
              ConstructorPract.py
            ConstructorPract.py
ExceptionPract.py
FileHandling.py
InheritanceEx.py
InheritanceEx.py
MethodOverride2.py
MethodOverriding.py
MultipleExceptions.py
OverLoading.py
DelamporphismSex.py
       PolymorphismEx.py

Scripts
        ∨ WhileLoop
                                           Car > _init_()
                                                                                                                                                                                                         $ -
  Run: P ConstructorPract
  The C:\Users\ADMIN\PycharmProjects\Test2\venv\Scripts\python.exe C:/Users/ADMIN/PycharmProjects/Test2/venv/Oops/ConstructorPract.py
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  ▶ <u>4</u>: Run III <u>6</u>: TODO ☑ Terminal ♣ Python Console
```

## Exception:



## File Handling:

```
File Edit View Navigate Code Refactor Run Iools VCS Window Help Test2 [C\Users\ADMIN\PycharmProjects\Test2] -...\venv\Oops\FileHandling.py - PyCharm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FileHandling ∨ ▶ # ■ Q
| Project Files | © ÷ ¢ - | ConstructorPract.py × & ExceptionPract.py × & Flethandling.py × | MethodOverride2.py × & MethodOverriding.py × | MethodOve
                                       © User Defined Module, py

■ Oops

■ __init__py

■ AbstractMethod.py

■ AccessSpecifiers.py

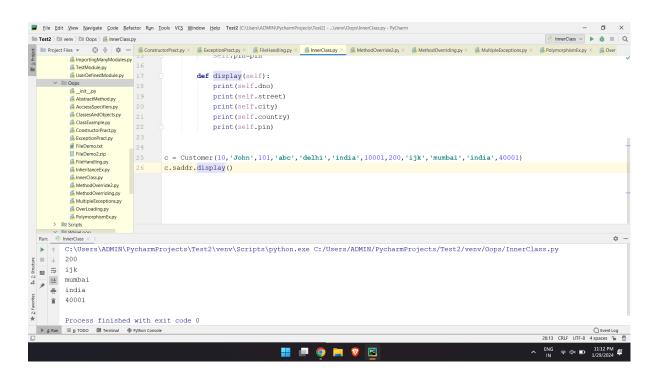
■ ClasseSample.py

■ ClassExample.py

■ Construction.et up.
                                                                                                                                   print(i)
                                                                                                                                  f2 = open('FileDemo2.zip','rb')
                                         ConstructorPract.py
                                                                                                                                   print(f2.read())
                                         ExceptionPract.py
                                         FileDemo.txt
                                        FileDemo2.zip
                                       inheritanceEx.py
InnerClass.py
MethodOverride2.py
MethodOverriding.py
MultipleExceptions.py
OverLoading.py
                                         PolymorphismEx.py
                         > Scripts
                                   C:\Users\ADMIN\PycharmProjects\Test2\venv\Scripts\python.exe C:\Users\ADMIN\PycharmProjects\Test2\venv\Oops\FileHandling.py
        ■ 5
Process finished with exit code 0
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   ▶ <u>4</u>: Run  <u>6</u>: TODO  Terminal � Python Console
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```

### Inner class:



## Method Overriding:

```
Elle Edit View Navigate Code Befactor Run Iools VC$ Window Help Test2 [C\Users\ADMIN\PycharmProjects\Test2] - ...\venn\Oops\MethodOverride2.py - PyCharm
                                                                                                                                                                                                                                                                                                                                                                                                                                         MethodOverride2 ∨ ▶ # ■ Q
| Project Files | ② ÷ ‡ - | SconstructorPract.py × | ExceptionPract.py × | ExceptionPract.py × | ExceptionPract.py × | InnerClass.py × | MethodOverrida.py × | MultipleExceptions.py × | PolymorphismExpy × | Over | SconstructorPract.py × | MultipleExceptions.py × | PolymorphismExpy × | Over | SconstructorPract.py × | MultipleExceptions.py × | MultipleExceptions.py × | MultipleExceptions.py × | PolymorphismExpy × | Over | SconstructorPract.py × | MultipleExceptions.py × | MultipleExce
                                  Importingivience
TestModule.py
UserDefinedModule.py
3
                                                                                                                       pet.talk()
    © User Defined Module, py

■ Oops

■ __init__py

■ AbstractMethod.py

■ AccessSpecifiers.py

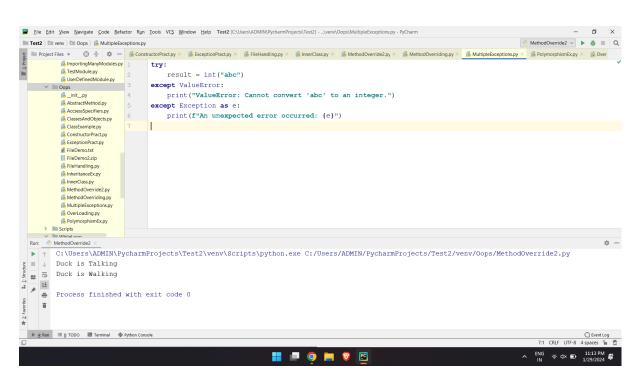
■ ClasseSample.py

■ ClassExample.py

■ Construction.et up.
                                                                                                                                 pet.walk()
                                                                                      7 class Duck:
8 def talk
9 prin
                                                                                                                         def talk(self):
                                   ConstructorPract.py
                                   ExceptionPract.py
                                                                                                                                         print('Duck is Talking')
                                   FileDemo.txt
                                  FileDemo2.zip
                                                                                                                           def walk(self):
                                  InheritanceEx.py
InnerClass.py
MethodOverride2.py
MethodOverriding.py
MultipleExceptions.py
OverLoading.py
                                                                                                                                        print('Duck is Walking')
                                                                                                             class Dog:
                                                                                                                def talk(self):
                                                                                                                                    print('Dog is Talking')
                                   PolymorphismEx.py
                      > Scripts
                             C:\Users\ADMIN\PycharmProjects\Test2\venv\Scripts\python.exe C:/Users\ADMIN\PycharmProjects/Test2/venv\Oops/MethodOverride2.py
 Duck is Talking

Duck is Walking
                           Process finished with exit code 0
               î
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```

# Multiple Exceptions:



## Polymorphism:

```
😰 File Edit View Navigate Code Befactor Run Tools VCS Window Help Test2 [C\Users\ADMIN\PycharmProjects\Test2] - ...\venv\Oops\PolymorphismEx.py - PyCharm
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                                                             | UserDefinedModume_, | 4 | 5 | 6 | Class Cat: | (ClassAndObjects by ClassEandObjects by ConstructorPactry | 5 | ConstructorPactry | 6 | ConstructorPactry | 7 | ConstructorPactry | 8 | ConstructorPactry | 8 | ConstructorPactry | 9 | 10 | ConstructorPactry | 10 | C
                                               9
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21ip
21iel4andling.py
35 InheritanceEx.py
36 MethodOverride2.py
36 MethodOverride3.py
36 MethodOverriding.py
36 MethodOverriding.py
36 Noverriding.py
36 PolymorphismEx.py
37 Scripts
38 Scripts
38 Scripts
38 Scripts
                                                                                                                                                                                                           my_cat = Cat()
                                                                                                                                                                                                             print(my_dog.animal_sound())
                                                                                                                                                                                                             print(my_cat.animal_sound())
          Polymorphis

Scripts

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PolymorphismEx
 emprans Dor
                                                       C:\Users\ADMIN\PycharmProjects\Test2\venv\Scripts\python.exe C:\Users\ADMIN\PycharmProjects/Test2\venv\Oops/PolymorphismEx.py
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                                                    Process finished with exit code 0
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```

## OverLoading:

