Assignment-5

DECORATOR IN PYTHON

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Decorator Function

Decorator function is used to extend to functionality of existing function.
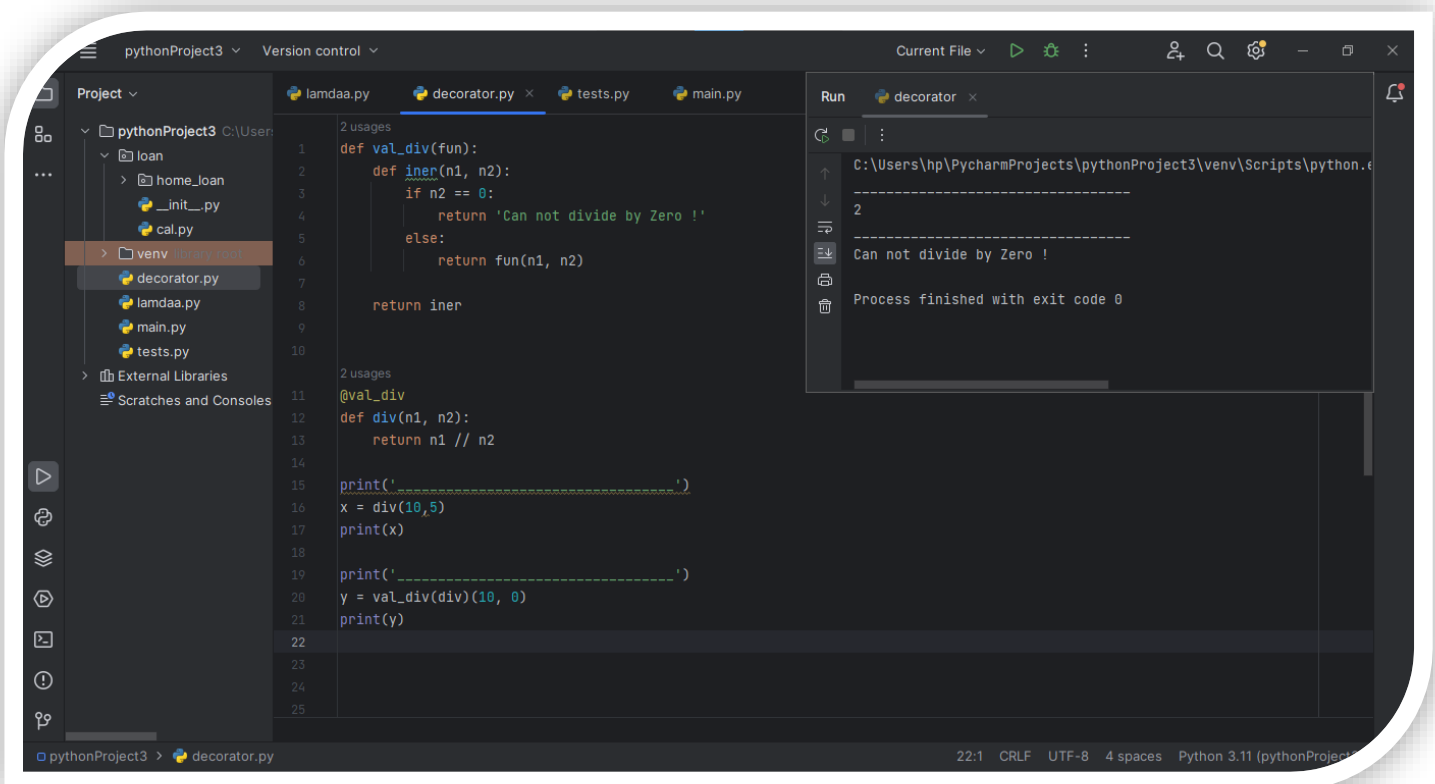
ROLE OF DECORATOR IN THIS ASSIGNMENT

Decorator function check the second number [n2] and prevent "ZeroDivisionError".

Decorator with Normal Function

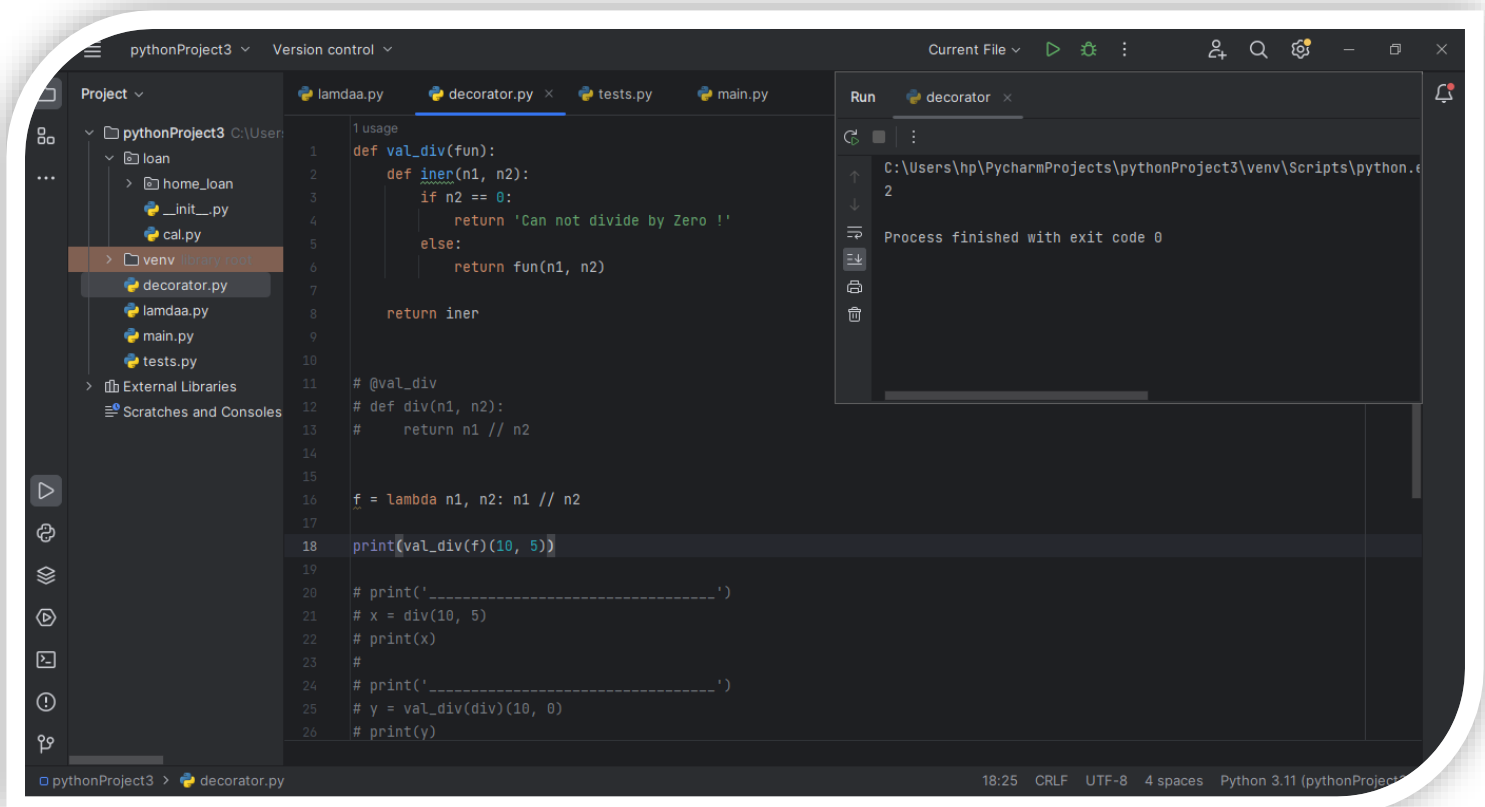Using a Normal function [div] divide two numbers [n1 / n2].

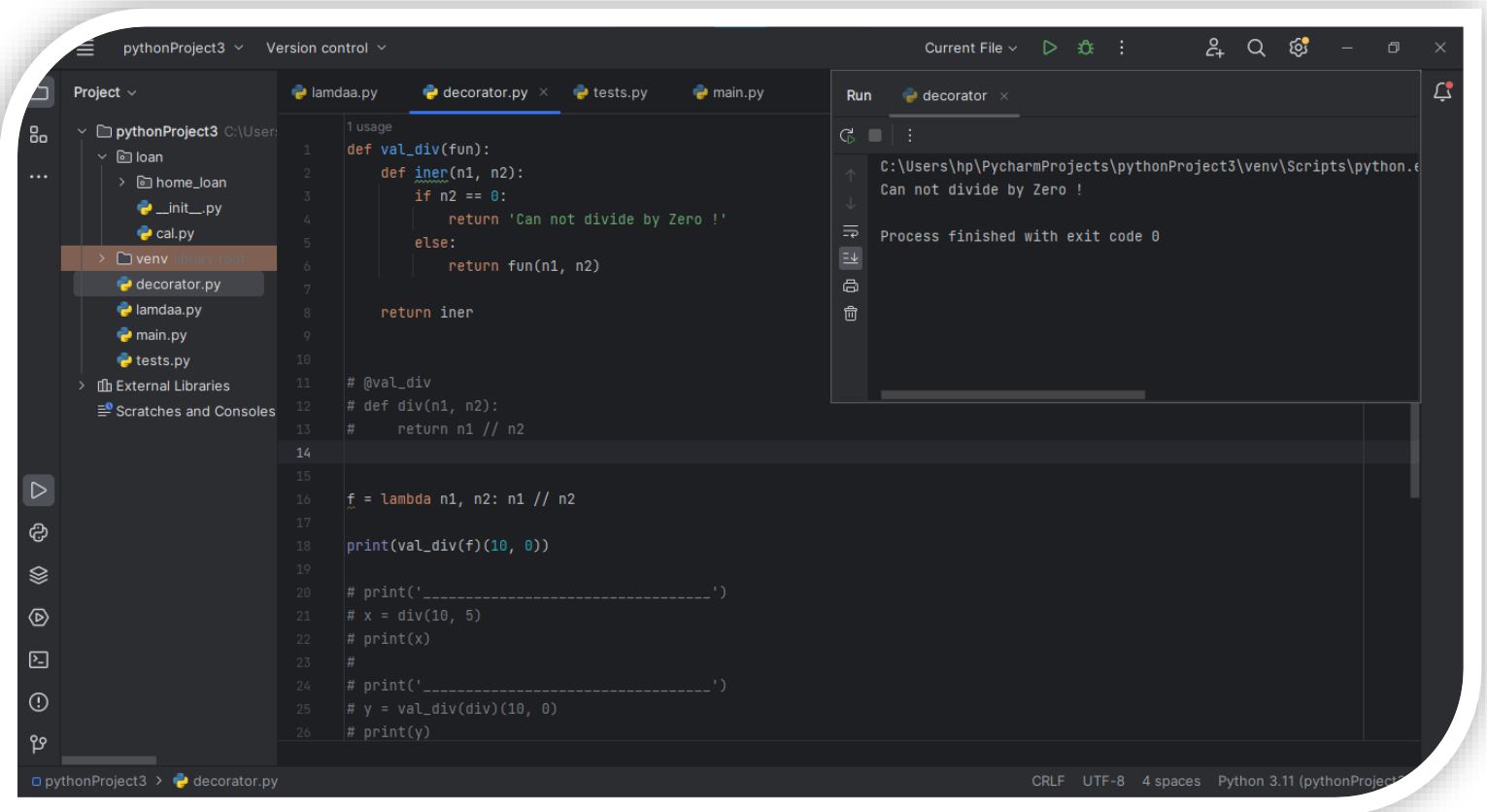We can call @decorator on Normal functions.

Decorator with Lambda Function | Expression

Using a lambda function for calculating division of two numbers [n1, n2]

We can not use @decorator like normal function, we have to call decorator function by passing lambda function and arguments.

```python
1 usage
def val_div(fun):
    def iner(n1, n2):
        if n2 == 0:
            return 'Can not divide by Zero !'
        else:
            return fun(n1, n2)

    return iner


# @val_div
# def div(n1, n2):
#     return n1 // n2


f = lambda n1, n2: n1 // n2

print(val_div(f)(10, 0))

# print('_____')
# x = div(10, 5)
# print(x)
#
# print('_____')
# y = val_div(div)(10, 0)
# print(y)
```

```
C:\Users\hp\PycharmProjects\pythonProject3\venv\Scripts\python.e
Can not divide by Zero !

Process finished with exit code 0
```

Thank You 😊