

Python_J1_Decorators_[Day_16](DATA MINDS)

September 15, 2023

DECORATORS - WITH THE HELP OF THE DECORATOR WE CAN ENHANCE THE BEAUTY OF CODE

```
[7]: def test():  
    print("Hey fellowmate")  
    print("This is Virat Tiwari")  
    print("I am ", 21 , "years old")  
    print("And I am aspiring Data Scientist")  
    print("I want to get into FAANG comapnies as a Data scientist")
```

```
[8]: test()
```

```
Hey fellowmate  
This is Virat Tiwari  
I am 21 years old  
And I am aspiring Data Scientist  
I want to get into FAANG comapnies as a Data scientist
```

```
[9]: def deco(details):  
    def inner_dec():  
        print("Hey fellowmate")  
        details()  
        print("I want to get into FAANG comapnies as a Data scientist")  
    return inner_dec
```

```
[17]: @deco  
def test1():  
    print(20+3)
```

```
[18]: test1()
```

```
Hey fellowmate  
23  
I want to get into FAANG comapnies as a Data scientist
```

IMPORT TIME () FUNCTION -: WITH THE HELP OF THIS FUNCTION WE CAN CALCULATE THE TIME OF EXECUTION OF CODE

[75]: *#WITH THE HELP OF THIS FUNCTION WE CAN CALCULATE THE TIME OF EXECUTION OF CODE*

```
import time

def timer_test(func):
    def timer_test_inner():
        start=time.time()
        func()
        end=time.time()
        print(end-start)
    return timer_test_inner
```

[80]:

```
def test2():
    print(26+10+9+57)
```

[81]:

```
test2()
```

102

[99]: *#IN THIS LINE OF CODE WE ALSO GET THE TIME OF EXECUTION OF CODE THAT HOW MUCH
↪TIME IT TAKEN DURING EXECUTION OF (ADDITION CODE) OF LINE*

```
@timer_test
def add():
    print(26+10+9+57)
```

[100]:

```
add()
```

102

4.887580871582031e-05

[86]:

```
@timer_test
def sub():
    print(106479-2549)
```

[87]:

```
sub()
```

103930

6.031990051269531e-05

[88]:

```
@timer_test
def mul():
    print(23*57)
```

[89]:

```
mul()
```

1311
4.76837158203125e-05

```
[90]: @timer_test  
def div():  
    print(15/3)
```

```
[91]: div()
```

5.0
6.389617919921875e-05

```
[95]: @timer_test  
def squ():  
    print(21**2)
```

```
[96]: squ()
```

441
4.9114227294921875e-05

```
[ ]: @timer_test  
def check_time():  
    for i in range(1000000000000):  
        pass
```

```
[ ]: #TRY THIS CODE , I'LL SHARE AS A QUESTION  
check_time()
```