

Decorator

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It is adding a feature to an existing function at RUNTIME

The programmer using the existing function has a choice to use the function as it is or To use the function with decorator or use it with CASCADING decorators

```
def myGreeting(name):  
    print("Welcome ",name)
```

```
def decorator1(func):  
    print("*****")  
    return func
```

```
def decorator2(func):  
    print("~~~~~")  
    return func
```

```
decoratedFunc = decorator2(myGreeting)  
decoratedFunc("prachi")  
#decorator2(myGreeting)
```

FIRST WAY OF USING DECORATOR

```
decorator2(decorator1(myGreeting))("priya")
```

SECOND WAY OF USING A DECORATOR

```
@decorator1  
@decorator2  
def myGreeting(name):  
    print("Welcome ",name)
```

HW1 - try the 2 ways of using decorator

HW2 ----

In flask write following function

MAPPING = /

F1 --- function should print Hello World

MAPPING = /factorial?num1 = 12

F2 = this should return output that is the factorial of 12

Write the factorial function in library1.py

MAPPING = /Sum/<num1>/<num2>/<num3>

F3 = should return the sum of the numbers

CREATE A TABLE Person --- id , fname, lname, dob, city

POPULATE The table from MYSQL client

MAPPING = /get?id=12

F4 = Show the details of person with Id 12

Return a multiline string with proper data

id = 12

Name = Prachi Godbole

dob = 12/12/2022

city = pune

MAPPING = /delete/<id>

F5 = delete the record of given id from table

MAPPING = /getage?id=12

F6 = show the age of the person with id 12 give name and age in output

MAPPING = /changecity/<id>/<newcityname>

F7 = update

MAPPING = /minors

Give a comma separated string of all persons less than 18 years age

Prachi(2),namita(4),shradda(8)

Mapping = /adults/<city>

All adults from the given city ---- comma separated first names

Mapping = /add/<fname>/<lname>/<dob>/<city>

Insert the record in the table

--- auto generate the primary key at database level

Return the NEW ID to the user

