Decorator Examples

Decorator with Parameter syntax

```
def decorators(*args, **kwargs):
    def inner(func):
        '''
           do operations with func
        '''
        return func
    return inner #this is the fun_obj mentioned in the above content

@decorators(params)
def func():
    """
         function implementation
    """
```

Example 1

```
# Python code to illustrate
# Decorators basic in Python

def decorator_fun(func):
  print("Inside decorator")

  def inner(*args, **kwargs):
    print("Inside inner function")
    print("Decorated the function")
    # do operations with func

    func()

  return inner

@decorator_fun
def func_to():
    print("Inside actual function")

func_to()
```

Example 2

```
# Python code to illustrate
# Decorators with parameters in Python

def decorator_fun(func):
  print("Inside decorator")

  def inner(*args, **kwargs):
    print("Inside inner function")
    print("Decorated the function")

    func()

  return inner


def func_to():
    print("Inside actual function")

# another way of using decorators
decorator_fun(func_to)()
```

Example 3

```
# Python code to illustrate
# Decorators with parameters in Python

def decorator(*args, **kwargs):
    print("Inside decorator")

    def inner(func):

        # code functionality here
        print("Inside inner function")
        print("I like", kwargs['like'])

        func()

    # returning inner function
    return inner

@decorator(like = "geeksforgeeks")
def my_func():
    print("Inside actual function")
```

Example 4

```
# Python code to illustrate
# Decorators with parameters in Python

def decorator_func(x, y):

    def Inner(func):

        def wrapper(*args, **kwargs):
            print("I like Geeksforgeeks")
            print("Summation of values - {}".format(x+y) )

            func(*args, **kwargs)

        return wrapper
    return Inner


# Not using decorator
def my_fun(*args):
    for ele in args:
        print(ele)

# another way of using decorators
decorator_func(12, 15)(my_fun)('Geeks', 'for', 'Geeks')
```