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DECORATORS , MODIFY AND EXTEND THE BEHAVIOUS OF FUNCTIONS AND
METHODS, WITHOUT CHANGING THE ACTUAL CODE
BEHAVIOUR
def decorator function(original function):
   def wrapper_function():
       print("Function is being decorated")
       return original function()
   return wrapper function
@decorator function
def display():
   print("display function is being called")
display()
import time
def time decorator(log message):
   def decorator_function(original_function):
       def wrapper function():
            result = original function() # Call the original function
           print
            end time = time.time() # Record the end time
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print(f"{log_message} - Function
(original function. name } took {execution time:.4f} seconds to
execute.")
           return result
       return wrapper function
   return decorator function
@time decorator("Execution Time Log")
def slow function():
   time.sleep(2) # Simulate a slow function by sleeping for 2 seconds
   print("Slow function executed.")
slow function()
def decorator function(MSG):
   def wrapper function(original function):
       def inner wrapper(*args, **kwargs):
            print(f"Function is being decorated with message: {MSG}")
            return original function(*args, **kwargs)
        return inner wrapper
    return wrapper function
@decorator function("This is a custom message")
def display(name):
   print(f"Display function is called by {name}")
display("Alice")
```