NPRG065: PROGAMMING IN PYTHON PRACTICALS 12







1. Create a function decorator that masks all errors in a function.

```
@ignore_errors
def divide(a, b):
    return a / b

print(divide(10, 2)) # returns 5
print(divide(10, 0)) # returns None
```

ASSIGNMENTS



2. Extend the previous decorator with specification of the return value if an exception is thrown.

```
@ignore_errors(return=0)
def divide(a, b):
    return a / b

print(divide(10, 2)) # 5
print(divide(10, 0)) # 0
```

Programming in Python

ASSIGNMENTS



- 3. Create a class decorator that wraps all "public" methods (those that don't start with "_") and prints:
 - "Method entry <NAME>" at the method entry, and
 - "Method exit <NAME>" at the method exit.



- 4. Extend the binary search tree (from the previous practicals):
 - To support indexing:

```
tree = BST()
for i in range(len(tree)):
    print(tree[i])
```

- To make it callable returns the root element
- To be usable in conditions an empty tree equals to false, otherwise to true

Programming in Python



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