A Practical Example

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A Practical Example

Example: Database Transactions
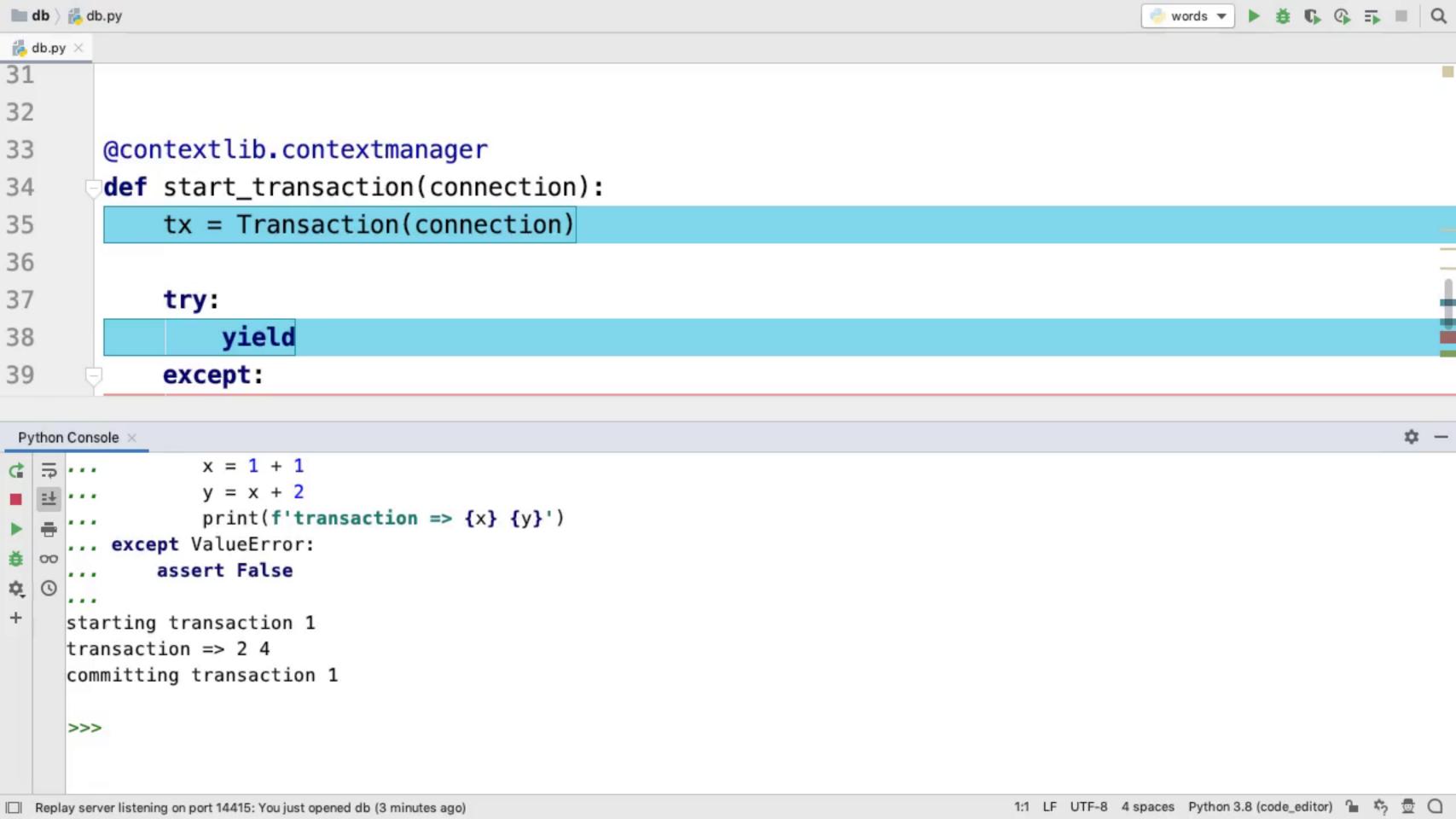
Database Connection class

Transaction class

Create Connection and Transaction instances to start transactions

Use Transaction methods to commit or roll back transactions

db.py ✕

```python
31
32
33    @contextlib.contextmanager
34    def start_transaction(connection):
35        tx = Transaction(connection)
36
37        try:
38            yield
39        except:
```

Python Console ✕

```
...         x = 1 + 1
...         y = x + 2
...         print(f'transaction => {x} {y}')
... except ValueError:
...     assert False
...
starting transaction 1
transaction => 2 4
committing transaction 1


>>>
```

Summary

Database transactions are a common kind of resource

A straightforward Python implementation can be hard to use correctly

A simple context manager substantially improves its usability

The pattern of using context managers to open and close resources is common and powerful

Well done!
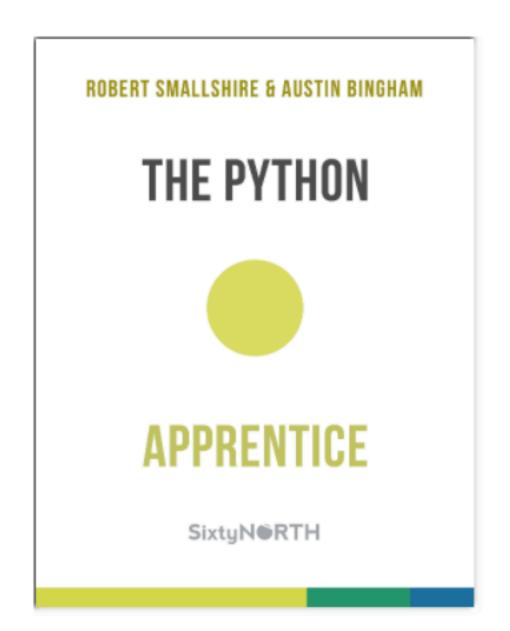
Core Python
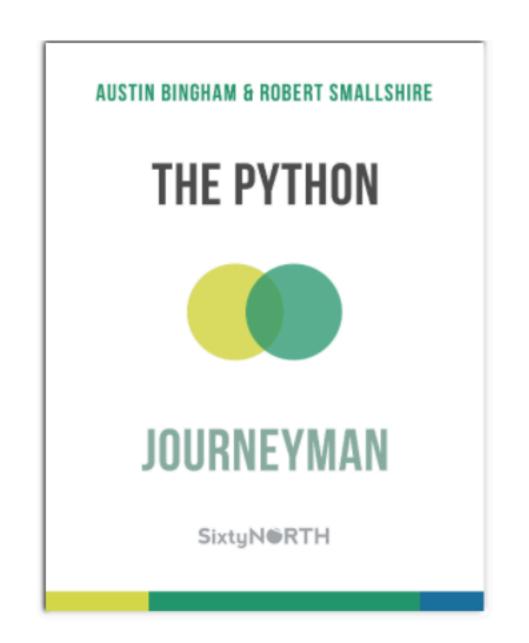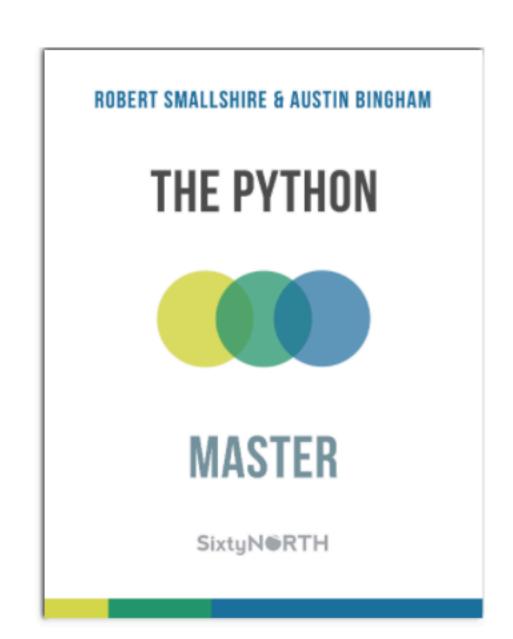
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PLURALSIGHT

# The Python Craftsman
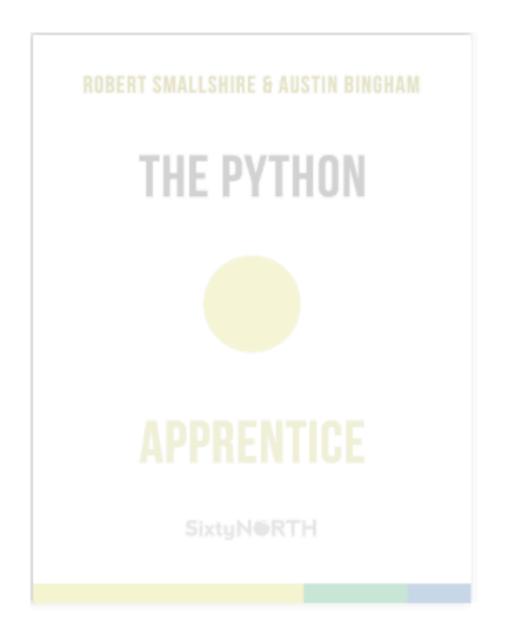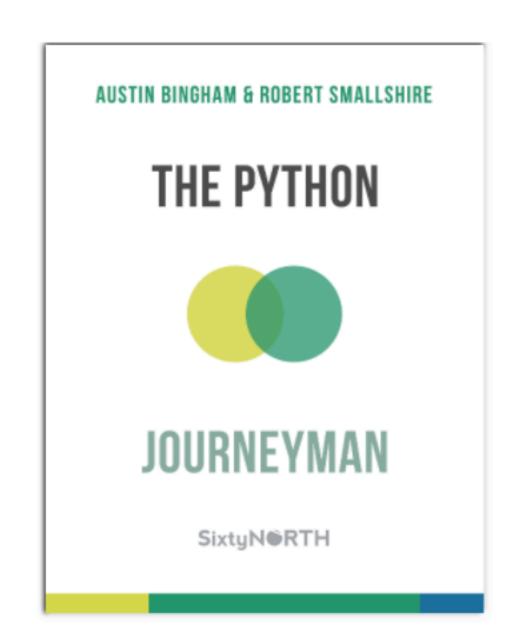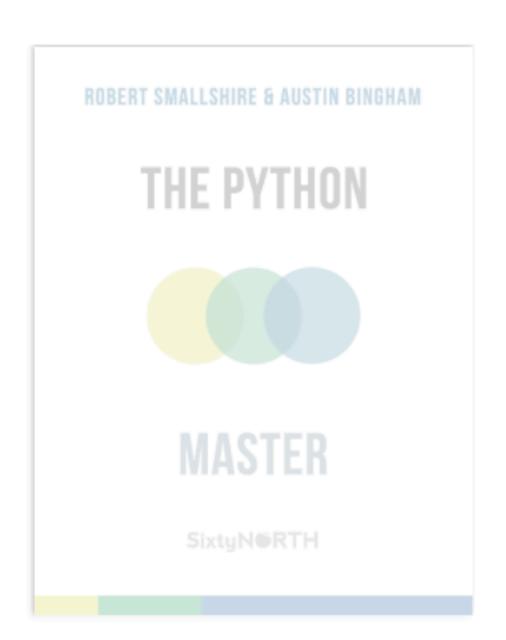
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The Python Journeyman

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Happy Programming!