

python Keyboard Shortcuts by ilbakso1 via cheatography.com/198931/cs/42148/

Abstract Classes

sadfasdfafrom abc import ABC, sdffas abstra ctm ethod asdfasdfsfsdclass MyClas s(ABC): eeeeee-@abstr act method eeeeeedef some m eth od(self): eeeeeeeeeeeepass eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee

Data Classes (cont)

> # and store it in the object
self.area: int = width * height

def draw(self) -> str:
 return f'Draw a {self.color} \
rectangle with area {self.area}'
rect = Rectangle(width=10, height=20, color='red')
print(rect.draw()) # Draw a red rectangle
with area 200
AttributeError: 'Rectangle' object has no
attribute 'width'
print(rect.width)
AttributeError: 'Rectangle' object has no
attribute 'height'

gdsfgsdfg

```
from abc import ABC,
  abstra ctm ethod

class MyClas s(ABC):
  @abstr act method

def some_m eth od( self):
  pass
```

Data Classes

```
from dataclasses import
dataclass,
InitVar
@dataclass
class Rectangle:
  # We don't want to store
  # width in the object
   width: InitVa r[int]
   # We don't want to store
height in the object
   height: InitVa r[int]
   color: str
  def __post _in it_ _(self,
width: int, height: int):
  # Create a new attribute
called area
```

das

fasdfasdf

print(rect.height)

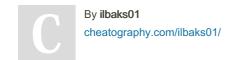
Unit Testing with Pytest

- 1. Write tests early and often
- 2. Keep tests small and focused:
- 3. Use descriptive test names
- 4. Avoid testing implementation details
- 5. Use test fixtures
- 6. Use mocking and stubbing when necessary
- 7. Run tests automatically
- 8. Maintain code coverage

```
pip install pytest
def test_addition():
    assert 2 + 2 == 4

pytest test_m ath.py

pip install coverage
pytest --cov= my_ package
```



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