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C204

7OOP

Inheritance

Performer.py:

```python
class Performer:
    def __init__(self, name: str, age: int):
        self.name = name
        self.age = age

    def get_name(self) -> str:
        return self.name

    def get_age(self) -> int:
        return self.age
```

Singer.py

```python
from performer import Performer

class Singer(Performer):
    def __init__(self, name: str, age: int, vocal_range: str):
        super().__init__(name, age)  # Call parent constructor
        self.vocal_range = vocal_range

    def get_vocal_range(self) -> str:
        return self.vocal_range

    def sing(self) -> None:
        print(f"{self.name} is singing with a {self.vocal_range} range.")
```

Dancer.py:

```python
from performer import Performer

class Dancer(Performer):
    def __init__(self, name: str, age: int, dance_style: str):
```

```
        super().__init__(name, age)  # Call parent constructor
        self.dance_style = dance_style

    def get_dance_style(self) -> str:
        return self.dance_style

    def dance(self) -> None:
        print(f"{self.name} is performing {self.dance_style} dance.")
```

Test_class.py

```
from performer import Performer
from singer import Singer
from dancer import Dancer

print("TEST CASE 1:")
p = Performer("John", 25)
print(p.get_name())
print(p.get_age())
print()



print("TEST CASE 2:")
s = Singer("Anna", 20, "Soprano")
print(s.get_name())
print(s.get_age())
print(s.get_vocal_range())
s.sing()
print()



print("TEST CASE 3:")
d = Dancer("Mark", 22, "Hip-hop")
print(d.get_name())
print(d.get_age())
print(d.get_dance_style())
d.dance()
```

Output:

```
TEST CASE 1:
John
25

TEST CASE 2:
Anna
20
Soprano
Anna is singing with a Soprano range.

TEST CASE 3:
Mark
```