Finals Task 2. Inheritance

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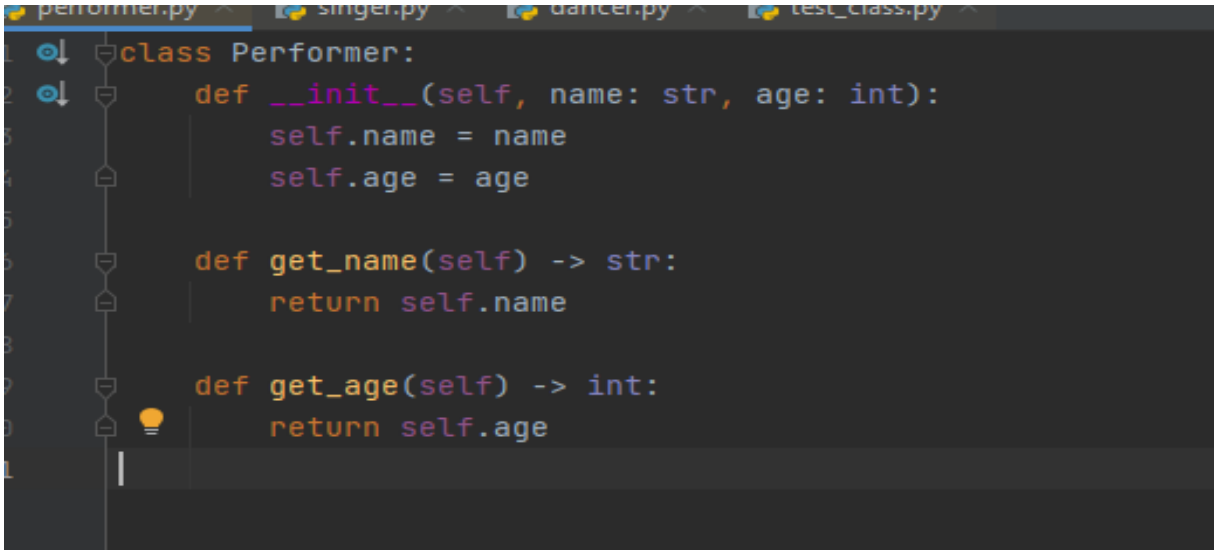
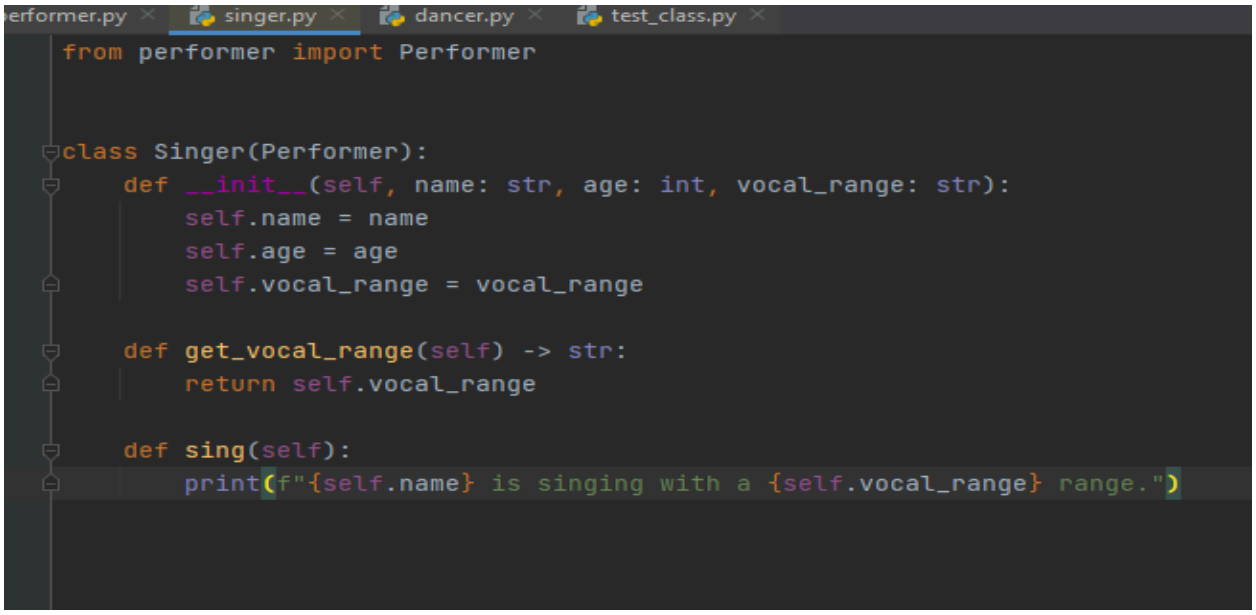
BSCS C203

Problem School Performance

performer.py(base class)




singer.py(sub class)



dancer.py(sub class)

performer.py singer.py dancer.py test_class.py

```python
from performer import Performer


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

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

    def dance(self):
        print(f"{self.name} is performing {self.dance_style} dance.")
```

test_class.py – following the required test cases

performer.py singer.py dancer.py test_class.py

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

def main():
    p = Performer( name: "John",  age: 25)
    print(p.get_name(), p.get_age())

    d = Dancer( name: "Emily",  age: 28,  dance_style: "Ballet")
    print(d.get_name(), d.get_age(), d.get_dance_style())

    d.dance()

    s = Singer( name: "Linda",  age: 35,  vocal_range: "Soprano")
    print(s.get_name(), s.get_age(), s.get_vocal_range())

    s.sing()


if __name__ == "__main__":
    main()
```

CASE TEST 1

performer.py | singer.py | dancer.py | test_class.py

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

def main():
    p = Performer( name: "John",  age: 25)
    print(p.get_name(), p.get_age())
```

CASE TEST 2

```
    d = Dancer( name: "Emily",  age: 28,  dance_style: "Ballet")
    print(d.get_name(), d.get_age(), d.get_dance_style())
```

CASE TEST 3

```
    d.dance()
```

CASE TEST 4 - IT JUST CHECK

CASE TEST 5

```
    s = Singer( name: "Linda",  age: 35,  vocal_range: "Soprano")
    print(s.get_name(), s.get_age(), s.get_vocal_range())
```

CASE TEST 6

```
    s.sing()
```

Sample Output