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BSCS – C204

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7OOP

FINALS LAB TASK 2

I. PROBLEM

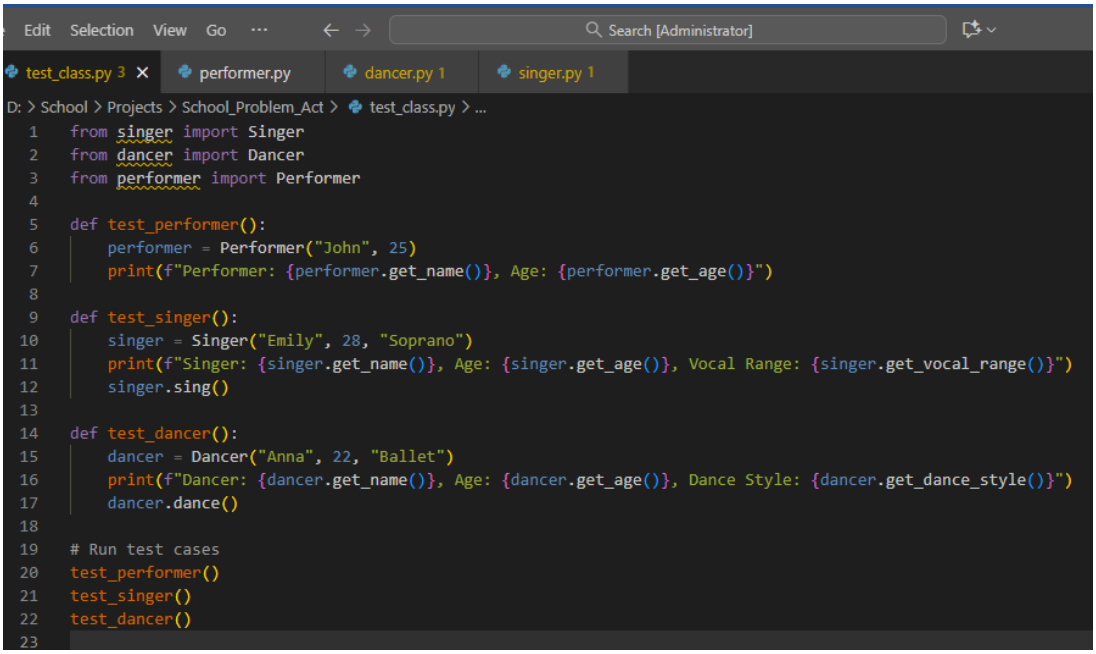
Problem School Performance

Note: You are to create 4 separate python files for this task:

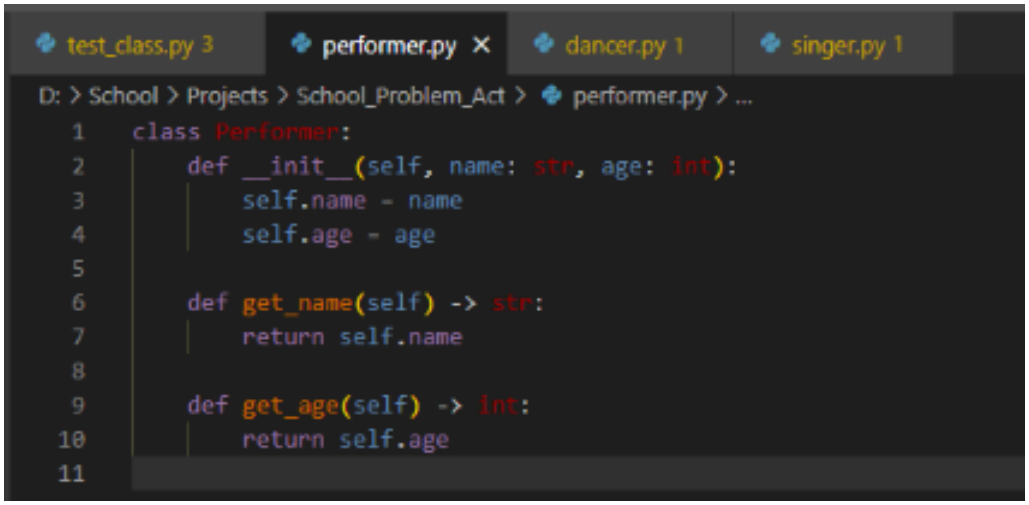
- performer.py(base class)
- singer.py(sub class)
- dancer.py(sub class)
- test_class.py – following the required test cases

II. CODE

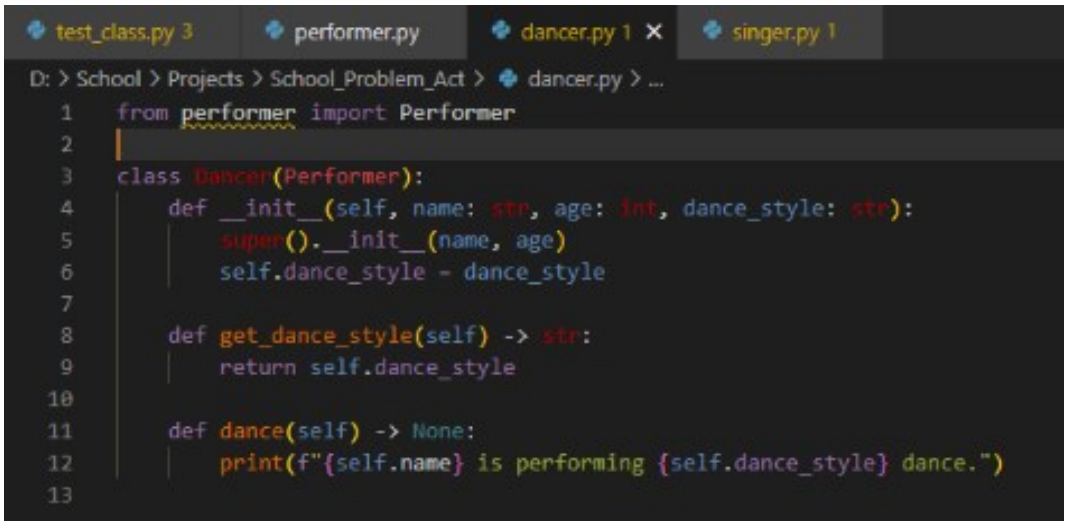
i.



ii.


test_class.py 3
performer.py
dancer.py 1
singer.py 1
D: > School > Projects > School_Problem_Act > performer.py > ...
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

iii.


test_class.py 3
performer.py
dancer.py 1
singer.py 1
D: > School > Projects > School_Problem_Act > dancer.py > ...
from performer import Performer
class Dancer(Performer):
def __init__(self, name: str, age: int, dance_style: str):
super().__init__(name, age)
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.")

iv.

test_class.py 3 | performer.py | dancer.py 1 | singer.py 1

D: > School > Projects > School_Problem_Act > singer.py > ...

```python
from performer import Performer

class Singer(Performer):
    def __init__(self, name: str, age: int, vocal_range: str):
        super().__init__(name, age)
        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.")

```

III. SAMPLE OUTPUT

PROBLEMS 5 | OUTPUT | DEBUG CONSOLE | TERMINAL | PORTS

```
PS C:\Program Files\Microsoft VS Code> & D:\School\Coding\Python\pytho
Performer: John, Age: 25
Singer: Emily, Age: 28, Vocal Range: Soprano
Emily is singing with a Soprano range.
Dancer: Anna, Age: 22, Dance Style: Ballet
Anna is performing Ballet dance.
PS C:\Program Files\Microsoft VS Code>
```