

Asuar, Blaine M.

C204

Activity 2

Source Code :

Main.py :

```
from performer import Performer
```

```
from singer import Singer
```

```
from dancer import Dancer
```

```
def test_performer():
```

```
    performer = Performer("John", 25)
```

```
    performer.display_info()
```

```
def test_dancer():
```

```
    dancer = Dancer("Emily", 28, "Ballet")
```

```
    print(f"{dancer.get_name()} {dancer.get_age()} {dancer.get_dance_style()}")
```

```
    dancer.dance()
```

```
def test_singer():
```

```
    singer = Singer("Linda", 35, "Soprano")
```

```
    print(f"{singer.get_name()} {singer.get_age()} {singer.get_vocal_range()}")
```

```
    singer.sing()
```

```
if __name__ == "__main__":
```

```
    test_performer()
```

```
    test_dancer()
```

```
    test_singer()
```

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
```

```
    def display_info(self) -> None:
```

```
        print(f"{self.get_name()} {self.get_age()} ")
```

Singer.py :

```
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.get_name()} is singing with a {self.get_vocal_range()} range.")
```

```
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.get_name()} is performing {self.get_dance_style()} dance.")
```

Sample Code :

```
John 25
Emily 28 Ballet
Emily is performing Ballet dance.
Linda 35 Soprano
Linda is singing with a Soprano range.
```