

## Code(performer.py):

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

    def get_name(self) -> str:
        print(f"{self.name}")
        return self.name

    def get_age(self) -> int:
        print(f"{self.age}")
        return self.age
```

## Code(singer.py):

```
from performer import Performer

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

    def vocal_range(self) -> str:
        print(f"{self.vocal_range()}")
        return self.vocal_range()

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

## Code(dancer.py):

```
from performer import Performer

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

    def dance_style(self) -> str:
        print(f"{self.dance_style}")
        return self.dance_style()
```

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

## Code(test\_class.py):

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

if __name__ == '__main__':
    case_1 = Performer("John", 25)
    case_1.get_name()
    case_1.get_age()
    print("-----")

    case_2 = Dancer("Emily", 28, "Ballet")
    case_2.get_name()
    case_2.get_age()
    case_2.dance()
    print("-----")

    case_3 = Singer("Linda", 35, "Soprano")
    case_3.get_name()
    case_3.get_age()
    case_3.sing()
```

## Output:



```
if __name__ == '__main__':
Run: test_class x
C:\Users\COMLAB\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:\Users\COMLAB\PycharmProjects\pythonProject1\test_class.py
John
25
-----
Emily
28
Emily is performing Ballet dance.
-----
Linda
35
Linda is singing with a Soprano range.

Process finished with exit code 0
```