

A Car That Works

Source Code

```
class Car:

    def __init__(self, color: str, price: float, size: str):
        self.__color = color
        self.__price = price
        self.__size = size

    def set_color(self, color: str):
        self.__color = color

    def set_price(self, price: float):
        self.__price = price

    def set_size(self, size: str):
        self.__size = size

    def get_color(self) -> str:
        return self.__color
    def get_price(self):
        if self.__price >= 0:
            return self.__price
        else:
            return 0
    def get_size(self):
        return self.__size.upper()

    def __str__(self):
        size_desc = {'L': "large",
'M': "medium", 'S': "small"}.get(self.__size.upper())
        return f"Car ({self.__color}) - P{self.__price:.2f} - {size_desc}"

if __name__ == '__main__':
    c1 = Car("Red", 19999.85, "M")
    c1.set_color("Red")
    c1.set_price(19999.85)
    c1.set_size('L')

    print(f"Action: Invoking the Car class instructor using
Car{c1.get_color() }, {c1.get_price() }, {c1.get_size() }")
    print("Output:")
    print(c1)
```

Sample Output

```
Run: CAR x
C:\Users\COMLAB\AppData\Local\Programs\Python\Python311\python.exe C:\Users\COMLAB\PycharmProjects\CAR.py
Action: Invoking the Car class instructor using CarRed,19999.85,L
Output:
Car (Red) - P19999.85 - large
Process finished with exit code 0
```

```
Run: CAR x
C:\Users\COMLAB\AppData\Local\Programs\Python\Python311\python.exe C:\Users\COMLAB\PycharmProjects\CAR.py
Action: Invoking the Car class instructor using CarRed,19999.85,M
Output:
Car (Red) - P19999.85 - medium
Process finished with exit code 0
```

```
Run: CAR x
C:\Users\COMLAB\AppData\Local\Programs\Python\Python311\python.exe C:\Users\COMLAB\PycharmProjects\CAR.py
Action: Invoking the Car class instructor using CarRed,19999.85,S
Output:
Car (Red) - P19999.85 - small
Process finished with exit code 0
```