

Finals Lab Task 1. Encapsulation

A Car That Works

```
2   class Car:| 3 usages
3     def __init__(self, color: str, price: float, size: str):
4       self.color = color
5       self.price = price
6       self.size = size.upper()
7
7     def get_color(self) -> str:
8       return self.color
9
10    def get_price(self) -> float:
11      return self.price
12
13    def get_size(self) -> str:
14      return self.size
15
16    def set_color(self, color: str) -> None:
17      self.color = color
18
19    def set_price(self, price: float) -> None:
20      self.price = price
21
22    def set_size(self, size: str) -> None:
23      self.size = size.upper()
```

```
Car (red) - ₱19999.85 - medium
Car (blue) - ₱50000.00 - large
Car (green) - ₱12345.67 - small
```

```
Process finished with exit code 0
```

```
1     def __str__(self) -> str:
2         size_descriptor = {
3             'S': 'small',
4             'M': 'medium',
5             'L': 'large'
6         }.get(self.size, 'unknown')
7
8         formatted_price = f"{self.price:.2f}"
9         return f"Car ({self.color}) - P{formatted_price} - {size_descriptor}"
10
11 car1 = Car("red", 19999.85, "M")
12 print(car1)
13
14 car2 = Car("blue", 50000.00, "L")
15 print(car2)
16
17 car3 = Car("green", 12345.67, "S")
18 print(car3)
```