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Program/Section: BSCS-C204

Lab Task 1

A Car That Works

CODE

```python
class Car:
    # Constructor
    def __init__(self, color: str, price: float, size: str):
        self.color = color
        self.price = price
        self.size = size.upper()

    # Getter
    def get_color(self):
        return self.__color

    def get_price(self):
        return self.__price

    def get_size(self):
        return self.__size

    # Setter
    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.upper()

    def __str__(self) -> str:
        size_desc = {'S': 'small', 'M': 'medium', 'L':
'large'}.get(self.size, 'unknown')
        return f"Car ({self.color}) - P{self.price:.2f} - {size_desc}"

if __name__ == '__main__':

    print("Action: Invoking the car class contructor using Car ('Red',
'19999.85', 'M')")
    car1 = Car("red", 19999.85, "m")
    print(car1)

    print("Action: Invoking the car class contructor using Car ('Blue',
'50000.00', 'L')")
    car2 = Car("blue", 50000.00, "L")
    print(car2)
```

```
    print("Action: Invoking the car class contructor using Car ('Green',
'12345.67, 'S')")
    car3 = Car("Green", 12345.67, "S")
    print(car3)
```

Sample Output 1

```
Action: Invoking the car class contructor using Car
Car (red) - P19999.85 - medium

Process finished with exit code 0
```

Sample Output 2

```
Action: Invoking the car class contructor using Car
Car (blue) - P50000.00 - large

Process finished with exit code 0
```

Sample Output 3

```
Action: Invoking the car class contructor using Car
Car (Green) - P12345.67 - small

Process finished with exit code 0
```