

7OOP1

The screenshot shows a code editor window with the file 'main.py' open. The code defines a class 'Car' with methods for setting and getting color, price, and size, and a __str__ method for printing the car details. It also contains a main() function that creates three Car objects and prints their details. The 'Run' button is highlighted.

```
main.py
```

```
1- class Car:
2-     def __init__(self, color: str, price: float
3-                  , size: str):
4-         self.__color = color
5-         self.__price = price
6-         self.__size = size.upper()
7-
8-     def get_color(self):
9-         return self.__color
10-
11    def get_price(self):
12        return self.__price
13-
14    def get_size(self):
15        return self.__size
16-
17    def set_color(self, color: str):
18        self.__color = color
19-
20    def set_price(self, price: float):
21        self.__price = price
22-
23    def set_size(self, size: str):
24        self.__size = size.upper()
25-
26    def __str__(self):
27        s = {'S': 'small', 'M': 'medium', 'L':
28             'large'}
29        return f"Car ({self.__color}) - P{self.__price: .2f} - {s.get(self.__size
30 )}"
31
32 def main():
33     car1 = Car("red", 19999.85, "m")
34     print("Action: Invoking the Car class
35           constructor using Car('red', 19999.85,
36           'M').")
37     print("Output:")
38     print(car1, "\n")
39
40     car2 = Car("blue", 50000.00, "l")
41     print("Action: Invoking the Car class
42           constructor using Car('blue', 50000.00,
43           'L').")
44     print("Output:")
45     print(car2, "\n")
46
47 if __name__ == "__main__":
48     main()
```

Action: Invoking the Car class constructor using Car ('red', 19999.85, 'M').
Output:
Car (red) - P19999.85 - medium

Action: Invoking the Car class constructor using Car ('blue', 50000.00, 'L').
Output:
Car (blue) - P50000.00 - large

Action: Invoking the Car class constructor using Car ('green', 12345.67, 'S').
Output:
Car (green) - P12345.67 - small

*** Code Execution Successful ***