Tayag, Andrei Lhord P.
C205 - ACT

Problem   **1.**

Write a program that includes two functions, as specified in the **minimum requirements**. The following are the function details:

- Calculate Average Rating: This function takes three double floating-point arguments - quality, price, and service. It calculates the average rating score based on the three aspects and returns the result in double data type.
- Analyze Product Ratings: This function does not return anything takes five arguments
  - productName (string), category (string), quality (double), price (double), and service (double). It displays the product's name, category, and individual aspect ratings. It also displays the average grade by calling the calculate average rating function and displaying its returned value by two decimal places.

Main

```python
1   def calculate_average_rating(quality, price, service):
2       average = (quality + price + service) / 3
3       return average
4
5   def analyze_product_ratings(product_name, category, quality, price, service):
6       average_rating = calculate_average_rating(quality, price, service)
7       print("\nProduct Name:", product_name)
8       print("Category:", category)
9       print(f"Quality Rating: {quality:.2f}")
10      print(f"Price Rating: {price:.2f}")
11      print(f"Service Rating: {service:.2f}")
12      print(f"Overall Average Rating: {average_rating:.2f}")
13
14  product_name = input("Enter Product Name: ")
15  category = input("Enter Category: ")
16  quality = float(input("Enter Quality Rating: "))
17  price = float(input("Enter Price Rating: "))
18  service = float(input("Enter Service Rating: "))
19
20  analyze_product_ratings(product_name, category, quality, price, service)
```

Output 1

```
Enter Product Name: Nike
Enter Category: Shoes
Enter Quality Rating: 9.9
Enter Price Rating: 6.7
Enter Service Rating: 8.6

Product Name: Nike
Category: Shoes
Quality Rating: 9.90
Price Rating: 6.70
Service Rating: 8.60
Overall Average Rating: 8.40
```

Output 2

```
Enter Product Name: Vivo
Enter Category: Cellphone
Enter Quality Rating: 8.5
Enter Price Rating: 7.4
Enter Service Rating: 7.7

Product Name: Vivo
Category: Cellphone
Quality Rating: 8.50
Price Rating: 7.40
Service Rating: 7.70
Overall Average Rating: 7.87

=== Code Execution Successful ===
```