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ACT - C205

Midterm Lab Task 2

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.

Sample 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
```

Sample Output 2

```
Enter Product Name: Addidas
Enter Category: Shoes
Enter Quality Rating: 8.9
Enter Price Rating: 6.85
Enter Service Rating: 8.9
Product Name: Addidas
Category: Shoes
Quality Rating: 8.90
Price Rating: 6.85
Service Rating: 8.90
Overall Average Rating: 8.22
```

Source Code :

```
def calculate_average_rating (quality_rating, price_rating, service_rating):
   return (quality_rating + price_rating + service_rating)/3

def analyze_product_rating (prod_name, category, quality_rating, price_rating,
service_rating):
   avg_rating = calculate_average_rating (quality_rating, price_rating,
service_rating)
   print(f"Product Name: {prod_name} \nCategory: {category} \nQuality Rating:
{quality_rating:0.2f} \nPrice Rating: {price_rating:0.2f} \nService Rating:
{service_rating:0.2f} \nOverall Average Rating: {avg_rating:0.2f}")


prod_name = input("Enter Product Name: ")
category = input("Enter Category: ")
quality_rating = float(input("Enter Quality Rating: "))
price_rating = float(input("Enter Price Rating: "))
service_rating = float(input("Enter Service Rating: "))


analyze_product_rating (prod_name, category, quality_rating, price_rating,
service_rating)
```

Screenshot of Sample Output:

```
C:\Users\CCMLAB\PycharmProjects\LABACT\Script
Enter Product Name: Addidas
Enter Category: Shoes
Enter Quality Rating: 8.9
Enter Price Rating: 6.85
Enter Service Rating: 8.9
Product Name: Addidas
Category: Shoes
Quality Rating: 8.90
Price Rating: 6.85
Service Rating: 8.90
Overall Average Rating: 8.22
```