Name: Sanika Uttekar. Roll No. 49

Code: class Product: def __init__(self, name, price, stock): self.name: str = name self.price: float = price self.stock: int = stock def update_stock(self, quantity): self.stock += quantity def __str__(self): return f"Product: {self.name}, Price: \${self.price:.2f}, Stock: {self.stock}" # Dictionary to store products products = {} while True: print("MENU\n1. Add Product\n2. Update Stock\n3. View Product Details\n4. Exit System") choice = input("Enter your choice: ") if choice == '1': name = input("Enter product name: ") price = float(input("Enter product price: ")) stock = int(input("Enter product stock: ")) products[name] = Product(name, price, stock) print("Product added successfully!") elif choice == '2': name = input("Enter product name to update: ") if name in products: quantity = int(input("Enter quantity to add/remove (positive to add, negative to

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remove): "))
      products[name].update_stock(quantity)
      print("Stock updated successfully!")
    else:
      print("Product not found.")
  elif choice == '3':
    name = input("Enter product name: ")
    if name in products:
      print(products[name])
    else:
      print("Product not found.")
  elif choice == '4':
    print("Exiting the system. Goodbye!")
    break
  else:
    print("Invalid choice. Please try again.")
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Output:

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MENU

1. Add Product
2. Update Stock
3. View Product Details
4. Exit System
Enter your choice: 1
Enter product name: Laptop
Enter product price: 850
Enter product stock: 27
Product added successfully!
MENU
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MENU
1. Add Product
2. Update Stock
3. View Product Details
4. Exit System
Enter your choice: 3
Enter product name: Laptop
Product: Laptop, Price: $850.00, Stock: 27
MENU
1. Add Product
2. Update Stock
3. View Product Details
4. Exit System
Enter your choice: 2
Enter product name to update: Laptop
Enter quantity to add/remove (positive to add, negative to remove): 5
Stock updated successfully!
MENU
1. Add Product
2. Update Stock
3. View Product Details
4. Exit System
Enter your choice: 3
Enter product name: Laptop
Product: Laptop, Price: $850.00, Stock: 32
MENU
1. Add Product
2. Update Stock
3. View Product Details
4. Exit System
Enter your choice: 1
Enter product name: Mobile
Enter product price: 220
Enter product stock: 42
Product added successfully!
MENU
1. Add Product
2. Update Stock
3. View Product Details
4. Exit System
Enter your choice: Laptop
Invalid choice. Please try again.
MENU
1. Add Product
2. Update Stock
3. View Product Details
4. Exit System
Enter your choice: 3
Enter product name: Laptop
Product: Laptop, Price: $850.00, Stock: 32
MENU
1. Add Product
2. Update Stock
3. View Product Details
4. Exit System
Enter your choice: 2
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Enter product name to update: Laptop
Enter quantity to add/remove (positive to add, negative to remove): -2
Stock updated successfully!
MENU

- 1. Add Product
- 2. Update Stock
- 3. View Product Details
- 4. Exit System

Enter your choice: 3

Enter product name: Laptop

Product: Laptop, Price: \$850.00, Stock: 30

MENU

- 1. Add Product
- 2. Update Stock
- 3. View Product Details
- 4. Exit System

Enter your choice: 4

Exiting the system. Goodbye!