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Roll No.09

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class Product:
    def __init__(self, name, price, stock):
        self.name = name
        self.price = price
        self.stock = stock

    def update_stock(self, quantity):
        self.stock += quantity
        print("Stock updated successfully!")

    def __str__(self):
        return f"Product: {self.name}, Price: ₹{self.price}, Stock: {self.stock}"

def main():
    products = {}

    while True:
        print("\n1. Add a new product")
        print("2. Update stock of an existing product")
        print("3. View product details")
        print("4. Exit")

        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: "))
                products[name].update_stock(quantity)
            else:
                print("Product not found!")

        elif choice == '3':
            name = input("Enter product name: ")
            if name in products:
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        print(products[name])
    else:
        print("Product not found!")

    elif choice == '4':
        print("Exiting the system. Goodbye!")
        break

    else:
        print("Invalid choice. Please try again.")

if __name__ == "__main__":
    main()

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1. Add a new product
2. Update stock of an existing product
3. View product details
4. Exit

Enter your choice: 1  
Enter product name: PS5  
Enter product price: 50000  
Enter product stock: 5

Product added successfully!

1. Add a new product
2. Update stock of an existing product
3. View product details
4. Exit

Enter your choice: 2  
Enter product name to update: PS5  
Enter quantity to add/remove: -2

Stock updated successfully!

1. Add a new product
2. Update stock of an existing product
3. View product details
4. Exit

Enter your choice: 3  
Enter product name: PS5

Product: PS5, Price: ₹50000.0, Stock: 3

1. Add a new product
2. Update stock of an existing product

- 3. View product details
- 4. Exit

Enter your choice: 4

Exiting the system. Goodbye!