VANSH BHELEKAR - 06

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

    def add_product(self):
        print(f"Product {self.name} added with price ${self.price} and stock {self.stock}.")
        print('Product added successfully')

    def update_stock(self, quantity):
        self.stock += quantity
        print(f"Stock updated. New stock: {self.stock}")

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


def main():
    products = []  # List to store multiple products

    while True:
        print("\nMenu:")
        print("1. Add Product")
        print("2. Update Product Stock")
        print("3. View Product Details")
        print("4. Exit")

        choice = input("Enter your choice (1/2/3/4): ")

        if choice == '1':
            product_name = input("Enter the product name: ")
            product_price = float(input("Enter the product price: "))
            product_stock = int(input("Enter the product stock quantity: "))
            product = Product(product_name, product_price, product_stock)
            products.append(product)
            product.add_product()

        elif choice == '2':
            product_name = input("Enter the product name to update stock: ")
            product_found = False
            for product in products:
                if product.name == product_name:
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```python
                    quantity = int(input("Enter quantity to
add/remove: "))
                    product.update_stock(quantity)
                    product_found = True
                    break

            if not product_found:
                print("Product not found.")

        elif choice == '3':
            product_name = input("Enter the product name to view
details: ")
            product_found = False
            for product in products:
                if product.name == product_name:
                    print(product)
                    product_found = True
                    break

            if not product_found:
                print("Product not found.")

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

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

if __name__ == "__main__":
    main()
```

```
,Menu:
,1. Add Product
,2. Update Product Stock
,3. View Product Details
,4. Exit
,Enter your choice (1/2/3/4): 1
,Enter the product name: Laptop
,Enter the product price: 400
,Enter the product stock quantity: 10
,Product Laptop added with price $400.0 and stock 10.
,Product added successfully
,
,Menu:
,1. Add Product
,2. Update Product Stock
,3. View Product Details
,4. Exit
```

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,Enter your choice (1/2/3/4): 2
,Enter the product name to update stock: Laptop
,Enter quantity to add/remove: 3
,Stock updated. New stock: 13
,
,Menu:
,1. Add Product
,2. Update Product Stock
,3. View Product Details
,4. Exit
,Enter your choice (1/2/3/4): 3
,Enter the product name to view details: Laptop
,Product: Laptop, Price: $400.0, Stock: 13
,
,Menu:
,1. Add Product
,2. Update Product Stock
,3. View Product Details
,4. Exit
,Enter your choice (1/2/3/4): 4
,Exiting the system. Goodbye!
```