

class Product:

def __init__(self, name, price, stock):

self.name = name.strip().lower()

self.price = float(price)

self.stock = int(stock)

def update_stock(self, quantity):

self.stock += quantity

print("Stock updated successfully!")

def __str__(self):

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

def main():

products = {}

while True:

print("\n1. Add Product")

print("2. Update Stock")

print("3. View Product Details")

print("4. Exit")

choice = input("Enter your choice: ")

if choice == "1":

name = input("Enter product name: ").strip().lower()

price = input("Enter product price: ")

stock = input("Enter product stock: ")

products[name] = Product(name, price, stock)

print("Product added successfully!")

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elif choice == "2":  
    name = input("Enter product name to update: ").strip().lower()  
    if name in products:  
        quantity = int(input("Enter quantity to add/remove (!use - TO remove): "))  
        products[name].update_stock(quantity)  
    else:  
        print("Product not found! Please check the name.")
```

```
elif choice == "3":  
    name = input("Enter product name: ").strip().lower()  
    if name in products:  
        print(products[name])  
    else:  
        print("Product not found! Please check the name.")
```

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elif choice == "4":  
    print("Exiting the system. Goodbye!")  
    break  
else:  
    print("Invalid choice! Please try again.")
```

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

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

Product added successfully!

1. Add Product

2. Update Stock

3. View Product Details

4. Exit

Product added successfully!

1. Add Product

2. Update Stock

3. View Product Details

4. Exit

Product: Phone, Price: \$20000.0, Stock: 4

1. Add Product

2. Update Stock

3. View Product Details

4. Exit

Stock updated successfully!

1. Add Product

2. Update Stock

3. View Product Details

4. Exit

Product: Phone, Price: \$20000.0, Stock: 1

1. Add Product

2. Update Stock

3. View Product Details

4. Exit

In []: