



Vidyavardhini's College of Engineering & Technology

Department of Computer Science & Engineering (Data Science)

Class:	SE3	Semester:	IV
Course Code:	CSL405	Course Name:	SBL-PP

Name of Student:	Siddhanth Shetty
Roll No. :	34
Assignment No.:	1
Date of Performance:	
Date of Submission:	

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	
Demonstrated knowledge	3	
Legibility	2	
Total	10	

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Completeness	5	4	3
Demonstrated knowledge	3	2	1
Legibility	2	1	0

Checked by

Name of Faculty : Mr Raunak Jhoshi

Signature :

Date :



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2/11/25, 10:52 PM Assignment1 (1).ipynb - Colab

```
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

    def __str__(self):
        return f"Product: {self.name}, Price: ${self.price:.2f}, Stock: {self.stock}"

def main():
    products = {}

    while True:
        print("\nProduct Management System")
        print("1. 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: ")
            price = float(input("Enter product price: "))
            stock = int(input("Enter stock quantity: "))
            products[name] = Product(name, price, stock)
            print("Product added successfully!")

        elif choice == "2":
            name = input("Enter product name: ")
            if name in products:
                quantity = int(input("Enter quantity to add/remove (negative to 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.")

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

```
Product Management System
1. Add Product
2. Update Stock
3. View Product Details
4. Exit
Enter your choice: 1
Enter product name: Laptop
Enter product price: 999.99
Enter stock quantity: 10
Product added successfully!

Product Management System
```



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```
1. Add Product
2. Update Stock
3. View Product Details
4. Exit
Enter your choice: 2
Enter product name: Laptop
Enter quantity to add/remove (negative to remove): -2
Stock updated successfully!
```

```
Product Management System
1. Add Product
2. Update Stock
3. View Product Details
4. Exit
Enter your choice: 3
Enter product name: Laptop
Product: Laptop, Price: $999.99, Stock: 8
```

```
Product Management System
1. Add Product
2. Update Stock
3. View Product Details
4. Exit
Enter your choice: 4
Exiting the system. Goodbye!
```

Start coding or generate with AI.