## NAME: Vaishnav Sujal Naresh / Roll\_no. : 51

```
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()
<del>_</del>
     Product Management System
     1. Add Product
     2. Update Stock
     3. View Product Details
     4. Exit
     Enter your choice: 1
     Enter product name: Macbook
     Enter product price: 1500
     Enter stock quantity: 5
     Product added successfully!
     Product Management System
     1. Add Product
     2. Update Stock
     3. View Product Details
     4. Exit
     Enter your choice: 2
     Enter product name: Macbook
     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: Macbook

Product: Macbook, Price: \$1500.00, Stock: 7

Product Management System

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

Enter your choice: 4
Exiting the system. Goodbye!