In [ ]:

```
class Product:
    def __init__(self, name, price, stock):
        self.name = name
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}, 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 = input("Enter product price: ")
stock = input("Enter product stock: ")
                        if name
in products:
                print("Product already exists!")
else:
                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:
                print(products[name])
else:
                print("Product not found!")
                elif choice
== '4':
            print("Exiting the system. Goodbye!")
break

else:
            print("Invalid choice! Please enter a number between 1 and 4.")
```

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

```
1. Add a new product
2. Update stock of an existing product
3. View product details
4. ExitProduct added successfully!

1. Add a new product
2. Update stock of an existing product
3. View product details
4. ExitStock updated successfully!

1. Add a new product
2. Update stock of an existing product
3. View product details
4. ExitProduct: prestige builder, Price: $2000000.0,
   Stock: 32

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

In [ ]:

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