```python
# -*- coding: utf-8 -*-
"""PP_Assignment_1.ipynb

Automatically generated by Colab.

Original file is located at
    https://colab.research.google.com/drive/1cZDqWEvDXKHJvDoucJMdnqhhrsSKGwmD
"""

products={}
while True:
  print("*****Menu Options******")
  print("1.Add a new Product")
  print("2.Update the stock of an existing product")
  print("3.Display the details of a product")
  print("4.Exit the program")
  print("***********************")
  choice = input("Enter your choice: (1-4)")
  if choice == '1':
    if name in products:
        print("Product already exists! Use option 2 to update stock.")
        break
    name = input("Enter product name: ")
    price = float(input("Enter product price: "))
    stock = int(input("Enter product stock: "))
    products[name] = {'price': price, 'stock': stock}

    print("Product added successfully!")

  elif choice == '2':
    name = input("Enter product name to update: ")
    if name not in products:
        print("Product not found! Add it first using option 1.")
        break
    quantity = int(input("Enter quantity to add/(-remove):"))
    products[name]["stock"] += quantity
    print("Stock updated successfully!")


  elif choice == '3':
    name = input("Enter product name: ")
    if name not in products:
        print("Product not found!")
        break
    product = products[name]
    print(f"Product: {name}, Price: {product['price']}, Stock: {product['stock']}")

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

  else:
    print("Please Enter choice from (1-4)")
```