CODE:

```python
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}"


products={}
while True:
 print("\n**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':
   name = input("Enter product name: ")
   if name in products:
       print("Product already int the Stock!.")
       break
   price = float(input("Enter product price: "))
   stock = int(input("Enter product stock: "))
   products[name] =Product(name, price, stock)

   print("Product added successfully!")

 elif choice == '2':
   name = input("Enter product name to update: ")
   if name not in products:
       print("Product not found in the Stock!.")
       break
   quantity = int(input("Enter quantity to add/(-remove):"))
   products[name].update_stock(quantity)
   print("Stock updated successfully!")
```

```python
    elif choice == '3':
      name = input("Enter product name: ")
      if name not in products:
          print("Product not found in the Stock!")
          break
      print(products[name])



    elif choice == '4':
      print("Exiting")
      break

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

Output:

```
*****Menu Options******
1.Add a new Product
2.Update the stock of an existing product
3.Display the details of a product
4.Exit the program
***********************

Enter your choice: (1-4)1
Enter product name: Laptop
Enter product price: 50000
Enter product stock: 7
Product added successfully!

*****Menu Options******
1.Add a new Product
2.Update the stock of an existing product
3.Display the details of a product
4.Exit the program
***********************

Enter your choice: (1-4)3
Enter product name: Laptop
Product: Laptop, Price: $50000.00, Stock: 7

*****Menu Options******
1.Add a new Product
2.Update the stock of an existing product
3.Display the details of a product
4.Exit the program
***********************

Enter your choice: (1-4)2
Enter product name to update: Laptop
Enter quantity to add/(-remove):2
Stock updated successfully!
```

```
4.Exit the program
*************************
Enter your choice: (1-4)3
Enter product name: Laptop
Product: Laptop, Price: $50000.00, Stock: 7

*****Menu Options******
1.Add a new Product
2.Update the stock of an existing product
3.Display the details of a product
4.Exit the program
*************************
Enter your choice: (1-4)2
Enter product name to update: Laptop
Enter quantity to add/(-remove):2
Stock updated successfully!

*****Menu Options******
1.Add a new Product
2.Update the stock of an existing product
3.Display the details of a product
4.Exit the program
*************************
Enter your choice: (1-4)3
Enter product name: Laptop
Product: Laptop, Price: $50000.00, Stock: 9

*****Menu Options******
1.Add a new Product
2.Update the stock of an existing product
3.Display the details of a product
4.Exit the program
*************************
Enter your choice: (1-4)
```