

# **Product Management System**

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Description: These are the outputs of the  
Product Management System Program

Main Menu:

```
Product Management System
1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit
Enter your choice:
```

1. Add Product:

```
Product Management System
1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit
Enter your choice: 1
Enter product name: Apple
Enter product price: 10
Enter product quantity: 12
Product added successfully!
```

## 2. Update Product:

### a. Name:

```
Product Management System
1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit
Enter your choice: 2
Enter product name to update: Apple
1. Update Name
2. Update Price
3. Update Quantity
Enter the attribute you want to update: 1
Enter new name: Orange
Product name updated successfully!
```

b. Price:

```
Product Management System
1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit
Enter your choice: 2
Enter product name to update: orange
1. Update Name
2. Update Price
3. Update Quantity
Enter the attribute you want to update: 2
Enter new price: 12
Product price updated successfully!
```

c. Quantity:

```
Product Management System
1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit
Enter your choice: 2
Enter product name to update: orange
1. Update Name
2. Update Price
3. Update Quantity
Enter the attribute you want to update: 3
Enter new quantity: 5
Product quantity updated successfully!
```

### 3. Search Product:

```
Product Management System
```

1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit

```
Enter your choice: 3
```

```
Enter product name to search: orange
```

```
Product found: Name: Orange, Price: 12.0, Quantity: 5
```

#### 4. Delete Product:

```
Product Management System
1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit
Enter your choice: 4
Enter product name to delete: orange
Product deleted successfully!
```

5. List All Products:

```
Product Management System
1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit
Enter your choice: 5
Product List:
Name: Orange, Price: 10.0, Quantity: 5
Name: Apple, Price: 15.0, Quantity: 10
Name: Graps, Price: 5.0, Quantity: 20
```



## 6. Sort Products:

### a. By Name:

```
Product Management System
1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit
Enter your choice: 6
Sort by:
1. Name
2. Price
3. Quantity
Enter your choice: 1
Sorted Products:
Name: Apple, Price: 15.0, Quantity: 10
Name: Graps, Price: 5.0, Quantity: 20
Name: Orange, Price: 10.0, Quantity: 5
```

b. By Price:

```
Product Management System
```

1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit

```
Enter your choice: 6
```

```
Sort by:
```

1. Name
2. Price
3. Quantity

```
Enter your choice: 2
```

```
Sorted Products:
```

```
Name: Graps, Price: 5.0, Quantity: 20
```

```
Name: Orange, Price: 10.0, Quantity: 5
```

```
Name: Apple, Price: 15.0, Quantity: 10
```

c. By Quantity:

```
Product Management System
1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit
Enter your choice: 6
Sort by:
1. Name
2. Price
3. Quantity
Enter your choice: 3
Sorted Products:
Name: Orange, Price: 10.0, Quantity: 5
Name: Apple, Price: 15.0, Quantity: 10
Name: Graps, Price: 5.0, Quantity: 20
```

## 7. Exit:

```
Product Management System
1. Add Product
2. Update Product
3. Search Product
4. Delete Product
5. List All Products
6. Sort Products
7. Exit
Enter your choice: 7
Are you sure you want to exit? (yes/no): yes
Exiting... Thank you!
```