

# Simple Vending Machine Program Documentation

## While Loop

While condition:

If....:

Else:

...

Break

Example:

```
while True:  
    desired_product = int(input("Input the code of the product. Press 0 to pay."))  
    if desired_product == 1:  
        total_price.append(1.5)  
        car.append("Coca Cola")  
    elif desired_product == 2:  
        total_price.append(2)  
        car.append("Sprite")  
    elif desired_product == 3:  
        total_price.append(2)  
        car.append("Ginger Ale")  
    elif desired_product == 4:  
        total_price.append(3.5)  
        car.append("Hot Chocolate")  
    elif desired_product == 0:  
        Break  
  
//The loop allows users to input values multiple times until the condition is  
fulfilled to end the loop.
```

## Dictionary

Dictionary\_name = {"item" : corresponding index}

Example:

```
product_list= {"Coca Cola" : 1,"Sprite" : 2, "Ginger Ale" : 3,  
              "Hot Chocolate" : 4}
```

## List

List\_name = ["item", "index"]

Example:

```
total_price = [2, 3]
```

### **Adding items to the list**

```
list_name.append("item")
```

Example:

```
total_price = [2, 3]
total_price.append(3.5)
```

Output: [2, 3, 3.5]

### **Deleting items to the list**

```
list_name.remove("item")
```

```
list_name.pop(index)
```

Example:

```
total_price = [2, 3]
total_price.pop(3)
```

Output: [2]

### **String (Field Space Formatting)**

```
print(f" {'string-value':intended width of the space containing the value}")
```

Example:

```
print(f" {'Product Name':14}{'Price':7}")
print(f" {'Coca Cola':14}{'$1.5':7}")
```

Output:

```
Product Name  Price
Coca Cola      $1.5
```