

## **class Product**

instance(s): product - a product is an instance of this class and is created by an employee.  
methods in this class can be utilized to store and manipulate product information and details.

### **1. Add\_product():**

**Begin:**

1. name = INPUT: "Enter the product name:"
2. Id = INPUT: "Enter product ID: "
3. APPEND name, Id to product\_name\_list, product\_id\_list
4. OUTPUT: "Product added successfully: "

**End**

### **2. Delete\_product():**

**Begin:**

1. Id = INPUT: "Enter product ID: "
2. for Id in cust\_id\_list:  
    If cust\_Id == Id:  
        index = index of Id  
        Delete product\_name\_list[index]  
        Delete product\_Id\_list[index]
3. OUTPUT: "product deleted successfully"

**End**

### **3. Edit\_product():**

**Begin:**

1. product\_Id = INPUT: "Enter the ID of the product"
2. for Id in product\_id\_list:  
    If product\_Id == Id:  
        index = index of Id
3. name = INPUT: "Enter the new product name: "
4. product\_name\_list [index] = name
5. Id = INPUT: "Enter the new product ID: "
6. product\_id\_list [index] = Id

**End**

#### **4. order\_product():**

**Begin:**

1. product\_Id = INPUT: "Enter the ID of the product"
2. if product\_id IS NOT in product\_id\_list:
3.       OUTPUT: "product not found"
4. for Id in product\_id\_list:
5.       If product\_Id == Id:
6.       index = index of Id
7. product\_sale\_list [index] = product\_sale\_list [index] + 1
8. product\_availability\_list[index] = product\_availability\_list[index] - 1
9. OUTPUT: "Order successful"

**End**

#### **5. show\_availability ()**

**Begin:**

1. for n in range of till cust\_id\_list:  
    OUTPUT: "product availability: ", product\_name\_list[n], product\_availability\_list[n]

**End**

**Test\_Senarios (Class03): -****Edited (8/12/2021).....**

<b>Method Number</b>	<b>Test case description</b>	<b>Test data</b>	<b>Expected result</b>	<b>Actual result</b>	<b>Pass/Fail</b>
1	Add the product details to the temp_products list	The unique product Details	The details appended to the list successfully and print	The details appended to the list successfully and print	pass
2	Delete the product details from the product list	The delete product code/method	The product details will equal to "None\n"	The product details will equal to "None\n"	pass
3	Test editing the product details (like price) Test the whole method	The specific edited data.	The specific edited data exists in the list/file after editing	The specific edited data exists in the list/file after editing	pass
5	Show the availability of an exists product	Input the id of the product Or Run the method...	Show the number of the products available for each product.	Show the number of the products available for each product.	pass
5	Test ordering some products that are not available	1- Input the quantity you want to order  2- The ordered quantity + 20	The ordered quantity + the exists quantity = the second test data	The ordered quantity + the exists quantity = the second test data	pass