

```
public class OrderTriggerHandler {

    public static void validateOrderQuantity(List<GoldenEra_Order__c> orderList) {

        for (GoldenEra_Order__c order : orderList) {

            if (order.Status__c == 'Confirmed') {

                if (order.Quantity__c == null || order.Quantity__c <= 500) {

                    order.Quantity__c.addError('For Status "Confirmed", Quantity must be more than 500.');
```

```

        order.Quantity__c.addError('For Status "Pending", Quantity must be more than
200.');
```

```

    }

} else if (order.Status__c == 'Rejection') {

    if (order.Quantity__c == null || order.Quantity__c != 0) {

        order.Quantity__c.addError('For Status "Rejection", Quantity must be 0.');
```

```

    }

}

}

System.debug('All records validated successfully.');
```

```

}

}

```

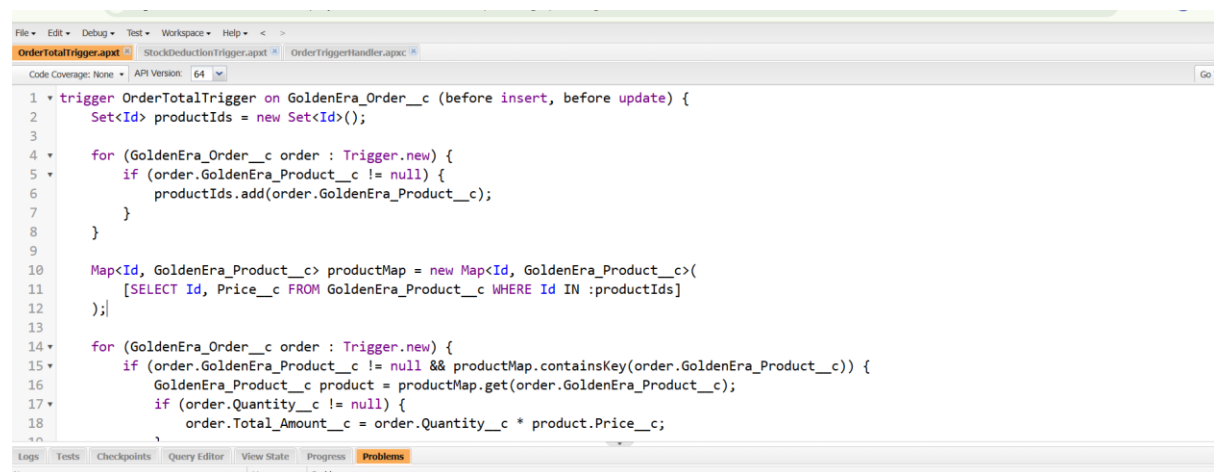
Step 2: Apex Triggers (before/after insert/update/delete)

In this project, two custom Apex triggers were implemented to automate critical processes in the Golden Era Enterprises CRM:

a) Order Total Trigger

Purpose:

- Automatically calculate the **Total Price** for each order.
- Formula: **Quantity × Product Price**



Source Code:

```
trigger OrderTotalTrigger on GoldenEra_Order__c (before insert, before update) {

    Set<Id> productIds = new Set<Id>();

    for (GoldenEra_Order__c order : Trigger.new) {

        if (order.GoldenEra_Product__c != null) {

            productIds.add(order.GoldenEra_Product__c);

        }

    }

    Map<Id, GoldenEra_Product__c> productMap = new Map<Id, GoldenEra_Product__c>({

        [SELECT Id, Price__c FROM GoldenEra_Product__c WHERE Id IN :productIds]

    });

    for (GoldenEra_Order__c order : Trigger.new) {

        if (order.GoldenEra_Product__c != null &&
productMap.containsKey(order.GoldenEra_Product__c)) {

            GoldenEra_Product__c product = productMap.get(order.GoldenEra_Product__c);

            if (order.Quantity__c != null) {

                order.Total_Amount__c = order.Quantity__c * product.Price__c;

            }

        }

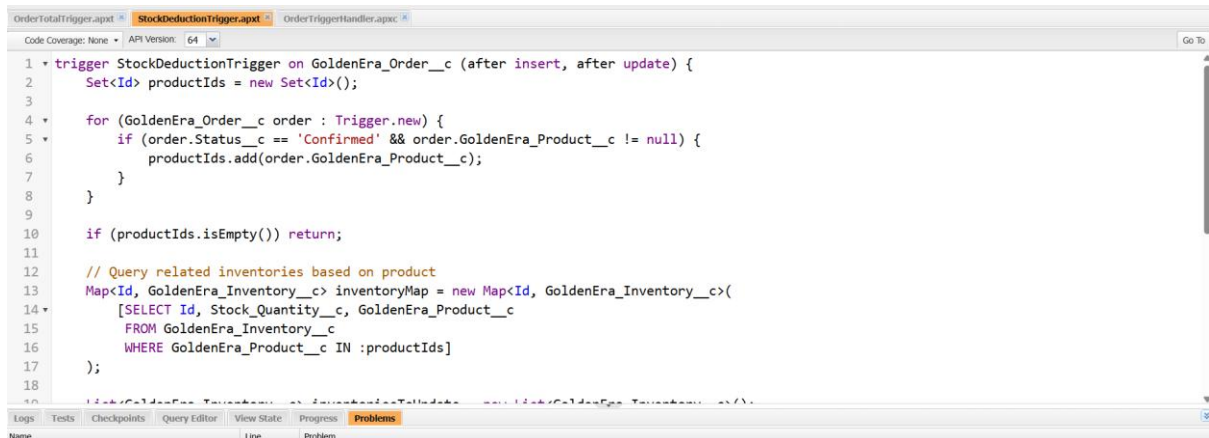
    }

}
```

b) Stock Deduction Trigger

Purpose:

- Deduct stock from **Inventory** (or Product Stock Quantity) based on the order quantity.
- Example: If customer orders 2 rings, Inventory decreases by 2.



Source Code:

```
trigger StockDeductionTrigger on GoldenEra_Order__c (after insert, after update) {
```

```
    Set<Id> productIds = new Set<Id>();
```

```
    for (GoldenEra_Order__c order : Trigger.new) {
```

```
        if (order.Status__c == 'Confirmed' && order.GoldenEra_Product__c != null) {
```

```
            productIds.add(order.GoldenEra_Product__c);
```

```
        }
```

```
    }
```

```
    if (productIds.isEmpty()) return;
```

```
    // Query related inventories based on product
```

```
    Map<Id, GoldenEra_Inventory__c> inventoryMap = new Map<Id,
```

```
GoldenEra_Inventory__c>(  
    [SELECT Id, Stock_Quantity__c, GoldenEra_Product__c
```

```

        FROM GoldenEra_Inventory__c

        WHERE GoldenEra_Product__c IN :productIds]

    );

    List<GoldenEra_Inventory__c> inventoriesToUpdate = new
    List<GoldenEra_Inventory__c>();

    for (GoldenEra_Order__c order : Trigger.new) {

        if (order.Status__c == 'Confirmed' && order.GoldenEra_Product__c != null) {

            for (GoldenEra_Inventory__c inv : inventoryMap.values()) {

                if (inv.GoldenEra_Product__c == order.GoldenEra_Product__c) {

                    inv.Stock_Quantity__c -= order.Quantity__c;

                    inventoriesToUpdate.add(inv);

                    break;

                }

            }

        }

    }

    if (!inventoriesToUpdate.isEmpty()) {

        update inventoriesToUpdate;

    }

}

```