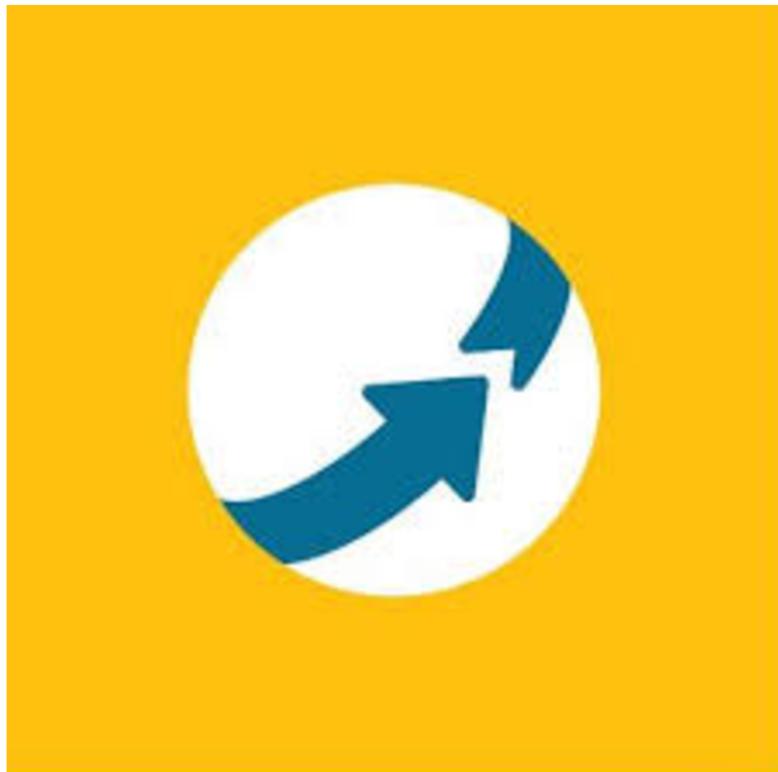


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e-commerce Task for Fawry Internship

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Tests and Outputs

TestCase 0

```
static void testNormalCheckout() { 1usage new*
    System.out.println("\n***** Test 0: Normal Checkout *****");
    try {
        Customer c = new Customer( name: "Mohamed", balance: 1000);
        c.addToCart(new Cheese( name: "Cheese", price: 50, quantity: 5, LocalDate.now().plusDays( daysToAdd: 3), weight: 0.2), quantity: 2);
        c.addToCart(new TV( name: "TV", price: 400, quantity: 1, weight: 10.0), quantity: 1);
        c.checkout();
    } catch (Exception e) {
        System.out.println("Checkout failed: " + e.getMessage());
    }
}
```

Output:

```
*****
Test 0: Normal Checkout *****

**** Checkout receipt ****

2x Cheese      100$
1x TV          400$

-----
Subtotal      500$
Shipping      102$
Total         602$

**** Shipment notice ****

2x Cheese      400.0gm
1x TV          10.0kg

Total package weight 10.4kg
```

TestCase 1

```
static void testQuantityExceedsStock() { 1usage new *
    System.out.println("\n***** Test 1: Quantity Exceeds Stock *****");

    try {
        Customer c = new Customer( name: "Sara", balance: 1000);
        c.addToCart(new Cheese( price: 50, quantity: 2, LocalDate.now().plusDays( daysToAdd: 3), weight: 0.2), quantity: 3);
    } catch (Exception e) {
        System.out.println("Add to cart failed: " + e.getMessage());
    }
}
```

Output:

```
***** Test 1: Quantity Exceeds Stock *****
Add to cart failed: Requested quantity exceeds available stock.
```

TestCase 2

```
static void testExpiredProduct() { 1usage new *
    System.out.println("\n***** Test 2: Expired Product *****");
    try {
        Customer c = new Customer( name: "Ali", balance: 1000);
        c.addToCart(new Cheese( price: 50, quantity: 5, LocalDate.now().minusDays( daysToSubtract: 1), weight: 0.2), quantity: 1);
        c.checkout();
    } catch (Exception e) {
        System.out.println("Checkout failed: " + e.getMessage());
    }
}
```

Output:

```
***** Test 2: Expired Product *****
Checkout failed: Cheese is expired.
```

TestCase 3

```
static void testEmptyCart() { 1 usage new *
    System.out.println("\n***** Test 3: Empty Cart *****");
    try {
        Customer c = new Customer( name: "Nada", balance: 1000);
        c.checkout();
    } catch (Exception e) {
        System.out.println("Checkout failed: " + e.getMessage());
    }
}
```

Output

```
***** Test 3: Empty Cart *****
Checkout failed: Cart is empty.
```

TestCase 4

```
static void testInsufficientBalance() { 1 usage new *
    System.out.println("\n***** Test 4: Insufficient Balance *****");
    try {
        Customer c = new Customer( name: "Ziad", balance: 100);
        c.addToCart(new TV( name: "TV", price: 400, quantity: 2, weight: 10.0), quantity: 1);
        c.checkout();
    } catch (Exception e) {
        System.out.println("Checkout failed: " + e.getMessage());
    }
}
```

Output

```
***** Test 4: Insufficient Balance *****
Checkout failed: Insufficient balance.
```

TestCase 5

```
static void testInsufficientBalance() { 1usage new*
    System.out.println("\n***** Test 4: Insufficient Balance *****");
    try {
        Customer c = new Customer( name: "Ziad", balance: 100);
        c.addToCart(new TV( name: "TV", price: 400, quantity: 2, weight: 10.0), quantity: 1);
        c.checkout();
    } catch (Exception e) {
        System.out.println("Checkout failed: " + e.getMessage());
    }
}
```

Output:

```
***** Test 4: Insufficient Balance *****
Checkout failed: Insufficient balance.
```