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3rd Year Section B (B1)
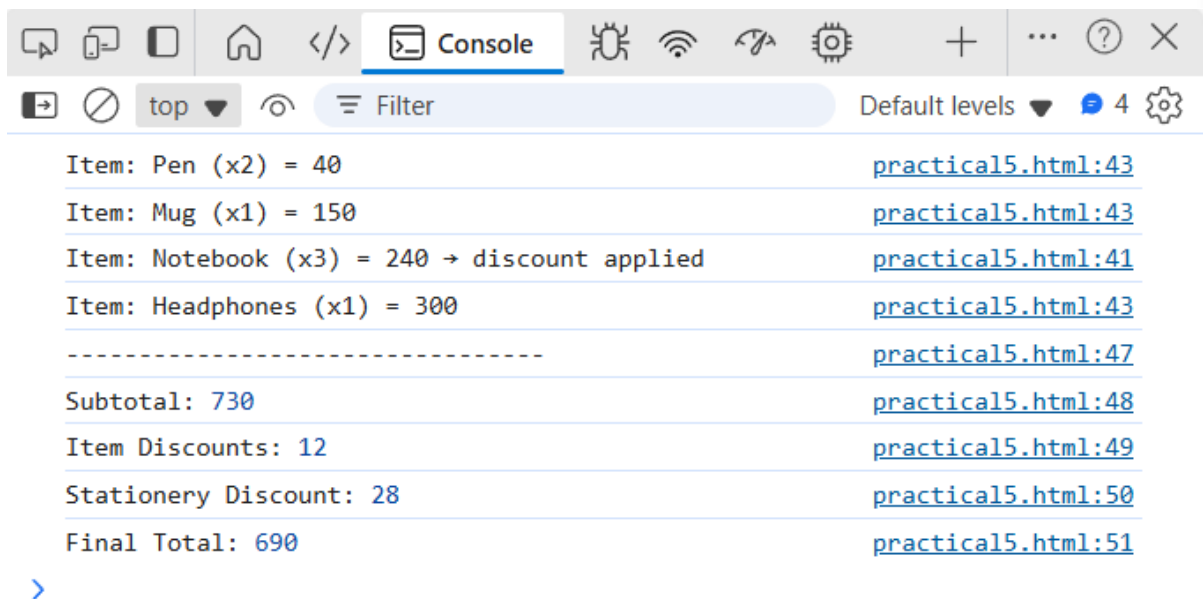
Practical 5 Final Task (JavaScript)

```
 1   <script>
 2   let cart = [
 3     { id: 1, name: "Pen", price: 20, qty: 2, category: "stationery" },
 4     { id: 2, name: "Mug", price: 150, qty: 1, category: "kitchen" },
 5     { id: 3, name: "Notebook", price: 80, qty: 3, category: "stationery" },
 6     { id: 4, name: "Headphones", price: 300, qty: 1, category: "electronics" }
 7   ];
 8
 9   function format(num) {
10     return Number(num.toFixed(2));
11   }
12
13   let itemTotals = cart.map(item => item.price * item.qty);
14
15   let itemDiscounts = cart.map(item => {
16     let subtotal = item.price * item.qty;
17     if (item.qty >= 3) {
18       return subtotal * 0.05;
19     }
20     return 0;
21   });
22
23   let stationeryItems = cart.filter(item => item.category === "stationery");
24   let stationeryTotal = stationeryItems.reduce(
25     (sum, item) => sum + (item.price * item.qty),
26     0
27   );
28
29   let stationeryDiscount = 0;
30   if (stationeryTotal > 200) {
31     stationeryDiscount = stationeryTotal * 0.10;
32   }
33
34   let subtotal = cart.reduce((sum, item) => sum + (item.price * item.qty), 0);
35   let totalItemDiscount = itemDiscounts.reduce((a, b) => a + b, 0);
36   let finalTotal = subtotal - totalItemDiscount - stationeryDiscount;
37
```

```
37
38     cart.forEach(item => {
39       let subtotal = item.price * item.qty;
40       if (item.qty >= 3) {
41         console.log(`Item: ${item.name} (x${item.qty}) = ${subtotal} → discount applied`);
42       } else {
43         console.log(`Item: ${item.name} (x${item.qty}) = ${subtotal}`);
44       }
45     });
46
47     console.log("--------------------------------");
48     console.log("Subtotal:", subtotal);
49     console.log("Item Discounts:", format(totalItemDiscount));
50     console.log("Stationery Discount:", format(stationeryDiscount));
51     console.log("Final Total:", format(finalTotal));
52     </script>
```

Console

top ▾   = Filter   Default levels ▾   4

Item: Pen (x2) = 40   practical5.html:43

Item: Mug (x1) = 150   practical5.html:43

Item: Notebook (x3) = 240 → discount applied   practical5.html:41

Item: Headphones (x1) = 300   practical5.html:43

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Subtotal: 730   practical5.html:48

Item Discounts: 12   practical5.html:49

Stationery Discount: 28   practical5.html:50

Final Total: 690   practical5.html:51

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