

```
1 console.clear();
2
3 /*
4
5 Currying is the process of transforming a function that takes multiple arguments into a sequence of functions that each take
one argument.
6
7 */
8
9 // Step 1 – Define a curried function
10
11 const calculateFinalPrice = (category) => (discount) => (tax) => (price) => {
12
13     // Calculate discount
14
15     let discountedPrice = price - (price * discount) / 100;
16
17     // Calculate final price with tax
18
19     let finalPrice = discountedPrice + (discountedPrice * tax) / 100;
20
21     console.log(`\nCategory: ${category}, Price: ₹${price}, Discount: ${discount}%, Tax: ${tax}%, Final: ₹
    ${finalPrice.toFixed(2)}`);
22
23     return finalPrice;
24 }
25
26 // Step 2 – Create specialized calculators
27
28 // For electronics – usually 10% discount, 18% tax
29
30 const electronicCalculator = calculateFinalPrice("Electronics")(10)(18);
31
32 // For clothing – 20% discount, 12% tax
33
34 const clothingCalculator = calculateFinalPrice("Clothing")(20)(12);
35
36 // For food – 5% discount, 5% tax
```

```
37
38 const foodCalculator = calculateFinalPrice("Food")(5)(5);
39
40 // Step 3 – Use the configured functions
41
42 electronicCalculator(50000); // ₹50000 → Discount → Tax → Final Price
43
44 clothingCalculator(2000); // ₹2000 → Discount → Tax → Final Price
45
46 foodCalculator(1000); // ₹1000 → Discount → Tax → Final Price
```