



Daffodil
International
University

Lab Evaluation 1

Course Title: Mobile Application Design Lab

Course Code: CSE414

Submitted to,

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Date of Submission: 03/02/2026

Problem:

Create a Dart program with three functions that simulate a shopping cart system:

1. `addItemPrice(double price)`
 - Adds the price of a new item to the cart.
 - Stores the running total.

`applyDiscount(double discountPercent)`

- Applies a discount to the current total.
- Carries forward the discounted amount to the next function.

`calculateFinalBill(double taxPercent)`

- Adds tax to the discounted total.
- Returns the final bill amount.

Solution:

```
double addItem(double total, double price) {  
    return total + price;  
}
```

```
double applyDiscount(double total, double discount) {  
    double discountAmount = total * (discount / 100);  
    return total - discountAmount;  
}
```

```
double tax(double total, double taxRate) {  
    double taxAmount = total * (taxRate / 100);  
    return total + taxAmount;  
}
```

```
void main(){  
    double a = 0;  
    a = addItem(a, 50);  
    a = addItem(a, 30);  
    a = applyDiscount(a, 10);  
    a = tax(a, 5);  
    print("Total amount: \$a");  
}
```

Screenshot with output:

```
evaluation1.dart > main
1  double addItem(double total, double price) {
2  |  return total + price;
3  }
4
5  double applyDiscount(double total, double discount) {
6  |  double discountAmount = total * (discount / 100);
7  |  return total - discountAmount;
8  }
9
10 double tax(double total, double taxRate) {
11 |  double taxAmount = total * (taxRate / 100);
12 |  return total + taxAmount;
13 }
14
Run | Debug
15 void main(){
16 |  double a = 0;
17 |  a = addItem(a, 50);
18 |  a = addItem(a, 30);
19 |  a = applyDiscount(a, 10);
20 |  a = tax(a, 5);
21 |  print("Total amount: \$a");
22 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Connecting to VM Service at ws://127.0.0.1:38415/w2V2uHc-AeU=/ws

Connected to the VM Service.

Total amount: 75.6

Exited.