



Lab Evaluation 1

Course Title: Mobile Application Design Lab

Course Code: CSE414

Submitted to,

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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.