

Swift Exp 1

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Program 1:

import Foundation

let item1Price = 100.0

let item2Price = 55.0

let item3Price = 37.0

let item4Price = 49.0

let item5Price = 61.0

let taxrate = 11.35

let discrate = 16.0

let subtotal = item1Price + item2Price + item3Price + item4Price + item5Price

let tottax = (item1Price × taxrate / 100) +
 (item2Price * taxrate / 100) +
 (item3Price * taxrate / 100) +
 (item4Price * taxrate / 100) +
 (item5Price * taxrate / 100)

let totdisc = (item1Price × discrate / 100) +
 (item2Price * discrate / 100) +
 (item3Price * discrate / 100) +
 (item4Price * discrate / 100) +
 (item5Price * discrate / 100)

print("Subtotal: \(subtotal)")

print("Total taxrate: \(tottax)")

print("Total discount: \(totdisc)")

print("Final amount after discount and tax: \(subtotal + tottax - totdisc)")

Output:

```
Subtotal: 302.0
Total taxrate: 34.277
Total discount: 48.32
Final amount after discount and tax: 287.957
Program ended with exit code: 0
```

Program 2:

import Foundation

```
print("Enter price for Item 1:")
let item1 = Double(readLine()!)
print("Enter price for Item 2:")
let item2 = Double(readLine()!)
print("Enter price for Item 3:")
let item3 = Double(readLine()!)
print("Enter price for Item 4:")
let item4 = Double(readLine()!)

print("Enter GST rate (%):")
let gstRate = Double(readLine()!)
print("Enter service charge rate (%):")
let serviceRate = Double(readLine()!)
print("Enter tip amount:")
let tipAmount = Double(readLine()!)

let subtotal = item1 + item2 + item3 + item4
let gst = subtotal × gstRate / 100
let serviceCharge = subtotal × serviceRate / 100
let grandTotal = subtotal + gst + serviceCharge + tipAmount

print("\nSubtotal: \$(subtotal)")
print("GST: \$(gst)")
print("Service charge: \$(serviceCharge)")
print("Tip: \$(tipAmount)")
print("Grand Total: \$(grandTotal)")
```

Output:

```
Enter price for Item 1:
22
Enter price for Item 2:
33
Enter price for Item 3:44

Enter price for Item 4:
55
Enter GST rate (%):
18
Enter service charge rate (%):
20
Enter tip amount:
20

Subtotal: 154.0
GST: 27.72
Service charge: 30.8
Tip: 20.0
Grand Total: 232.52
Program ended with exit code: 0
```