

Problem Set 1 Exercise #03: Restaurant Bill

Reference: Lecture 1 notes

Learning objective: Program structure; Data type; Input/output statements

Estimated completion time: 15 minutes

Problem statement:

[CS1010E AY2010/11 Semester 1 Sit-in lab #1 Question]

When eating in a restaurant in Singapore, it is common that the price of menu items is not the final payable amount: the price is subject to a further 10% service charge applied to menu price and a 7% GST applied thereafter.

Write a program **bill.c** that accepts a net price (of **double** type) as input, calculates and outputs the amount of GST, service charge and the final bill a customer need to pay, all corrected to two decimal places.

Sample run #1:

```
Enter menu price: $100
10% Service Charge: $10.00
7% GST: $7.70
Your total bill: $117.70
```

Sample run #2:

```
Enter menu price: $40
10% Service Charge: $4.00
7% GST: $3.08
Your total bill: $47.08
```