

computeCarPrice

Write a program to calculate the actual cost of buying a car in Singapore. Your program should input the list price and the category of a car, and print out the actual cost. Based on the list price, assuming that the car dealer will give a discount of 10%. You should also consider that there is a 10% luxury tax on the amount over \$100,000 (after the discount), and that the G.S.T. tax is 3%. All taxes are computed based on the discounted price. Certificate of Entitlement (COE) must be obtained for every car in Singapore. The amount you bid for the COE is based on the category your car belongs to. COE is not taxed. The categories and their COE prices are given below:

- (1) Car (1600 c.c. & below) & Taxi: COE = 70,000
- (2) Car (above 1600 c.c.): COE = 80,000
- (3) Goods Vehicle & Bus: COE = 23,000
- (4) Motorcycle - COE: 600

A sample program template is given below:

```
#include <stdio.h>
int main()
{
    /* Write your code here */
    return 0;
}
```

Sample input and output sessions are given below:

- (1) Test Case 1:
Please enter the list price:
30000
Please enter the category:
1
Total price is \$97810.00

- (2) Test Case 2:
Please enter the list price:
50000
Please enter the category:
2
Total price is \$126350.00

- (3) Test Case 3:
Please enter the list price:
5000
Please enter the category:
4
Total price is \$5235.00

- (4) Test Case 4:
Please enter the list price:
20000

```
#include <stdio.h>
int main()
{
    int cat=0;
    float price=0.0,discout=0.0,subtotal=0.0,total=0.0;

    printf("Please enter the list price:\n");
    scanf("%f",&price);

    printf("Please enter the category:\n");
    scanf("%d",&cat);

    discount = price/100*90;
    if(discout>100000)
    {
        discount = discout/100*110;
    }

    subtotal = discount/100*103;

    if(cat==1)
    {
        total = subtotal + 70000;
    }
    else if(cat==2)
    {
        total = subtotal + 80000;
    }
    else if(cat==3)
    {
        total = subtotal + 23000;
    }
    else if(cat==4)
    {
        total = subtotal + 600;
    }
    printf("Total price is $%.2f\n",total);

    return 0;
}
```

Please enter the category:

3

Total price is \$41540.00