

The screenshot shows the VS Code editor with a C program for calculating the selling price of a book. The program includes a `main` function that takes a cost price, calculates a 50% discount, and then applies additional discounts based on the cost price ranges. The `calculateSellingPrice` function uses the `getDiscount` function to determine the discount amount.

```
FB > C:\Prog > tests > C:\q1SellingBuyBook.c > getDiscount(int)
4 void main()
5 {
6     scanf("%d", &cost);
7     printf("\n%d is final Selling price.", calculateSellingPrice(cost));
8 }
9
10 int calculateSellingPrice(int cost)
11 {
12     int discount = getDiscount(cost);
13     printf("\nSelling price applied 50% more than cost price and");
14     printf("\n%d discount applied", discount);
15     return ((cost + (cost * 0.50)) - discount);
16 }
17
18 int getDiscount(int cost)
19 {
20     if (cost < 500)
21     {
22         printf("\n5% discount.");
23         return cost * 0.05;
24     }
25     else if (cost < 5000)
26     {
27         printf("\n10% discount.");
28         return cost * 0.10;
29     }
30     else if (cost < 10000)
31     {
32         printf("\n20% discount.");
33         return cost * 0.20;
34     }
35     else if (cost > 10000)
36     {
37         printf("\n38% discount.");
38         return cost * 0.38;
39     }
40 }
41
42
43
44
```

The screenshot shows the VS Code editor with the same C program as above. The terminal window at the bottom displays the output of the program, showing the cost price entered, the calculated selling price, and the discount applied.

```
PS C:\Code> & "c:\Users\bhagv\vscode\extensions\ms-vscode.cpptools-1.21.6-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe" --stdin-Microsoft-MIEngine-In-ni-jaxdun.net --stdout-Microsoft-MIEngine-Out-k2bx5rsl.mon --stderr-Microsoft-MIEngine-Error-ptm33uk4.qus --pid-Microsoft-MIEngine-61d-e1ztkw.vch --dbgexeC:\Windows\WinSxS\x64\bin\gdb.exe --interpreter=mi
Enter the Cost price of the book :50019
38% discount.
Selling price applied 50% more than cost price and
19007 discount applied
50021 is final Selling price.
PS C:\Code>
```

```
1 #include <stdio.h>
2 void showbalance(int *);
3 void deposite(int *, int);
4 void withdraw(int *, int);
5 void main()
6 {
7     int bal = 2500;
8     int ch = 10, amt;
9     while (ch)
10     {
11         printf("\nEnter Your choice : ");
12         printf("\n1) Show Balance: ");
13         printf("\n2) Deposite money: ");
14         printf("\n3) Withdraw Money: ");
15         printf("\n 0) Exit: ");
16         scanf("%d", &ch);
17         switch (ch)
18         {
19             case 1:
20                 showbalance(&bal);
```

Enter amount you want to Deposite : 700000  
Deposite success of 700000 . New bal : 700000  
Enter Your choice :  
1) Show Balance:  
2) Deposite money:  
3) Withdraw Money:  
0) Exit: 3  
Enter amount you want to withdraw : 231134  
Withdrawal success of 231134 . Remaining bal : 468866  
Enter Your choice :  
1) Show Balance:  
2) Deposite money:  
3) Withdraw Money:  
0) Exit: 0  
PS C:\Code>

```
#include <stdio.h>
void showbalance(int *);
void deposite(int *, int);
void withdraw(int *, int);
void main()
{
    int bal = 2500;
    int ch = 10, amt;
    while (ch)
    {
        printf("\nEnter Your choice : ");
        printf("\n1) Show Balance: ");
        printf("\n2) Deposite money: ");
        printf("\n3) Withdraw Money: ");
        printf("\n 0) Exit: ");
        scanf("%d", &ch);
        switch (ch)
        {
            case 1:
                showbalance(&bal);
                break;
            case 2:
                printf("\nEnter amount you want to Deposite : ");
                scanf("%d", &amt);
                deposite(&bal, amt);
                break;
            case 3:
                printf("\nEnter amount you want to withdraw : ");
```

```

        scanf("%d", &amt);
        withdraw(&bal, amt);
        break;
    case 0:
        return;
        break;

    default:
        break;
}
}
}
void showbalance(int *ba)
{
    printf("\nBalance: %d", *ba);
}
void withdraw(int *ba, int amt)
{
    if (*ba < 3000)
    {
        printf("\nLow balance broo!!!!");
    }
    else
    {
        *ba = *ba - amt;
        printf("\nWithdrawal success of %d . Remaining bal : %d", amt, *ba);
    }
}
void deposit(int *ba, int amt)
{
    *ba += amt;
    printf("\nDeposit success of %d . New bal : %d", amt, *ba);
}

```

Output : PS C:\Code> & 'c:\Users\bhagv\.vscode\...\ TDM-GCC-64\bin\gdb.exe' '--interpreter=mi'

Enter Your choice :

- 1) Show Balance:
- 2) Deposit money:
- 3) Withdraw Money:
- 0) Exit: 1

Balance: 2500

Enter Your choice :

- 1) Show Balance:
- 2) Deposit money:
- 3) Withdraw Money:
- 0) Exit: 2

Enter amount you want to Deposit : 2500

Deposit success of 2500 . New bal : 5000

Enter Your choice :

- 1) Show Balance:
- 2) Deposit money:
- 3) Withdraw Money:
- 0) Exit: 3

Enter amount you want to withdraw : 5000

Withdrawal success of 5000 . Remaining bal : 0

Enter Your choice :

- 1) Show Balance:
- 2) Deposit money:
- 3) Withdraw Money:
- 0) Exit: 3

Enter amount you want to withdraw : 500

Low balance broo!!!!

Enter Your choice :

- 1) Show Balance:

- 2) Deposit money:
- 3) Withdraw Money:
- 0) Exit: 1

Balance: 0

Enter Your choice :

- 1) Show Balance:
- 2) Deposit money:
- 3) Withdraw Money:
- 0) Exit: 2

Enter amount you want to Deposit : 700000

Deposit success of 700000 . New bal : 700000

Enter Your choice :

- 1) Show Balance:
- 2) Deposit money:
- 3) Withdraw Money:
- 0) Exit: 3

Enter amount you want to withdraw : 231134

Withdrawal success of 231134 . Remaining bal : 468866

Enter Your choice :

- 1) Show Balance:
- 2) Deposit money:
- 3) Withdraw Money:
- 0) Exit: 0

PS C:\Code>