

Program 2: Commission problem

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1CR18IS151

Program:

```
#include<stdio.h>
int main()
{
    // Sooraj M Singh 1CR18IS151
    int locks, stocks, barrels, tlocks, tstocks, tbarrels;
    float lprice, sprice, bprice, sales, comm;
    int c1,c2,c3,temp;
    lprice=45.0;
    sprice=30.0;
    bprice=25.0;
    tlocks=0;
    tstocks=0;
    tbarrels=0;
    printf("\nEnter the number of locks and to exit the loop enter -
1 for locks\n");
    scanf("%d",&locks);
    while(locks!=-1)
    {
        c1=(locks<=0||locks>70);
        printf("Enter the number of stocks and barrels\n");
        scanf("%d%d",&stocks,&barrels);
        c2=(stocks<=0||stocks>80);
        c3=(barrels<=0||barrels>90);
        if(c1)
            printf("Value of locks not in the range 1..70 ");
        else
        {
            temp=tlocks+locks;
            if(temp>70)
                printf("New total locks =%d not in the range 1..70 so old ",te
mp);
            else
                tlocks=temp;
        }
        printf("Total locks = %d\n",tlocks);
        if(c2)
            printf("Value of stocks not in the range 1..80 ");
        else
        {
            temp=tstocks+stocks;
```

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        if(temp>80)
            printf("New total stocks =%d not in the range 1..80 so old ",t
emp);
        else
            tstocks=temp;
    }
    printf("Total stocks=%d\n",tstocks);
    if(c3)
        printf("Value of barrels not in the range 1..90 ");
    else
    {
        temp=tbarrels+barrels;
        if(temp>90)
            printf("new total barrels =%d not in the range 1..90 so old ",
temp);
        else
            tbarrels=temp;
    }
    printf("Total barrel = %d",tbarrels);
    printf("\nEnter the number of locks and to exit the loop enter -
1 for locks\n");
    scanf("%d",&locks);
}
printf("\nTotal locks = %d\nTotal stocks = %d\nTotal barrels = %d\n",tlock
s,tstocks,tbarrels);
sales = lprice*tlocks+sprice*tstocks+bprice*tbarrels;
printf("\nThe total sales = %f\n",sales);
if(sales > 0)
{
    if(sales > 1800.0)
    {
        comm=0.10*1000.0;
        comm=comm+0.15*800;
        comm=comm+0.20*(sales-1800.0);
    }
    else if(sales > 1000)
    {
        comm =0.10*1000;
        comm=comm+0.15*(sales-1000);
    }
    else
        comm=0.10*sales;
    printf("The commission is = %f\n",comm);
}
else
    printf("There is no sales\n");
return 0;
}

```

Program Screenshots:

```
1 // Anirudh Krishnaprasad 10R18T5917
2 #include<stdio.h>
3 int main()
4 {
5     int locks, stocks, barrels, tlocks, tstocks, tbarrels;
6     float lprice, sprice, bprice, sales, comm;
7     int c1, c2, c3, temp;
8     lprice=45.0;
9     sprice=30.0;
10    bprice=25.0;
11    tlocks=0;
12    tstocks=0;
13    tbarrels=0;
14    printf("\nEnter the number of locks and to exit the loop enter -1 for locks\n");
15    scanf("%d",&locks);
16    while(locks!=-1)
17    {
18        c1=(locks<=0||locks>70);
19        printf("Enter the number of stocks and barrels\n");
20        scanf("%d%d",&stocks,&barrels);
21        c2=(stocks<=0||stocks>80);
22        c3=(barrels<=0||barrels>90);
23        if(c1)
24            printf("Value of locks not in the range 1..70 ");
25        else
26        {
27            temp=tlocks+locks;
28            if(temp>70)
29                printf("New total locks =%d not in the range 1..70 so old ",temp);
30            else
31                tlocks=temp;
32        }
33        printf("Total locks = %d\n",tlocks);
34        if(c2)
35            printf("Value of stocks not in the range 1..80 ");
36        else
```

```
37    else
38    {
39        temp=tstocks+stocks;
40        if(temp>80)
41            printf("New total stocks =%d not in the range 1..80 so old ",temp);
42        else
43            tstocks=temp;
44    }
45    printf("Total stocks=%d\n",tstocks);
46    if(c3)
47        printf("Value of barrels not in the range 1..90 ");
48    else
49    {
50        temp=tbarrels+barrels;
51        if(temp>90)
52            printf("New total barrels =%d not in the range 1..90 so old ",temp);
53        else
54            tbarrels=temp;
55    }
56    printf("Total barrel = %d",tbarrels);
57    printf("\nEnter the number of locks and to exit the loop enter -1 for locks\n");
58    scanf("%d",&locks);
59 }
60 printf("\nTotal locks = %d\nTotal stocks = %d\nTotal barrels = %d\n",tlocks,tstocks,tbarrels);
61 sales = lprice*tlocks+sprice*tstocks+bprice*tbarrels;
62 printf("\nthe total sales = %f\n",sales);
63 if(sales > 0)
64 {
65     if(sales > 1800.0)
66     {
67         comm=0.10*1000.0;
68         comm=comm+0.15*800;
69         comm=comm+0.20*(sales-1800.0);
70     }
71     else if(sales > 1000)
72     {
73         comm =0.10*1000;
```

```
55     printf("Total barrel = %d",tbarrels);
56     printf("\nEnter the number of locks and to exit the loop enter -1 for locks\n");
57     scanf("%d",&locks);
58 }
59     printf("\nTotal locks = %d\nTotal stocks = %d\nTotal barrels = %d\n",tlocks,tstocks,tbarrels);
60     sales = lprice*tlocks+price*tstocks+brprice*tbarrels;
61     printf("\nthe total sales = %f\n",sales);
62     if(sales > 0)
63     {
64         if(sales > 1800.0)
65         {
66             comm=0.10*1000.0;
67             comm=comm+0.15*800;
68             comm=comm+0.20*(sales-1800.0);
69         }
70         else if(sales > 1000)
71         {
72             comm =0.10*1000;
73             comm=comm+0.15*(sales-1000);
74         }
75         else
76             comm=0.10*sales;
77         printf("The commission is = %f\n",comm);
78     }
79     else
80         printf("There is no sales\n");
81     return 0;
82 }
83
```

Output screenshots:

```
sooraj@Asus-F-15:~/st-lab$ gcc p2-Stlab.cpp
sooraj@Asus-F-15:~/st-lab$ ./a.out

Enter the number of locks and to exit the loop enter -1 for locks
70
Enter the number of stocks and barrels
80
90
Total locks = 70
Total stocks=80
Total barrel = 90
Enter the number of locks and to exit the loop enter -1 for locks
-1

Total locks = 70
Total stocks = 80
Total barrels = 90

The total sales = 7800.000000
The commission is = 1420.000000
sooraj@Asus-F-15:~/st-lab$ ./a.out

Enter the number of locks and to exit the loop enter -1 for locks
18
Enter the number of stocks and barrels
17
19
Total locks = 18
Total stocks=17
Total barrel = 19
Enter the number of locks and to exit the loop enter -1 for locks
-1

Total locks = 18
Total stocks = 17
Total barrels = 19

The total sales = 1795.000000
The commission is = 219.250000
sooraj@Asus-F-15:~/st-lab$
```