Program 2: Commission problem Sooraj M Singh

1CR18IS151

Program:

```c
#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;
```

```c
            if(temp>80)
                printf("New total stocks =%d not in the range 1..80 so old ",temp);
            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",tlocks,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:

```cpp
            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",tlocks,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;
    }
```

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$
```