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/*
Thomas Gibbons
Profit.c
Lab 1
Problem 2
*/
#include <stdio.h>
#include <math.h>

int main(void)
{
    /*Data*/
    float cost,sell;

    /*Input*/
    printf("\nCost price: ");
    scanf("%f",&cost);

    /*Loop while price not positive*/
    int error=1;
    while(cost<=0)
    {
        /*Give 2 attempts*/
        if(error>2)
        {
            /*Termination message*/
            printf("\nToo many attempts");
            printf("\nProgram terminated.\n");
            return 1;
        }
        else
        {
            /*Input*/
            printf("\nCost price must be greater than 0");
            printf("\nPlease try again: ");
            scanf("%f",&cost);
            error++;
        }
    }

    /*Input*/
    printf("\nSelling price: ");
    scanf("%f",&sell);

    /*Loop while price not positive*/
    int error=1;
    while(sell<=0)
    {
        /*Give 2 attempts*/
        if(error>2)
        {
            /*Termination message*/
            printf("\nToo many attempts");
        }
    }
}
```

```
        printf("\nProgram terminated.\n");
        return 2;
    }
    else
    {
        /*Input*/
        printf("\n Selling price must be greater than 0");
        printf("\nPlease try again: ");
        scanf("%f",&sell);
        error++;
    }
}

/*Analysis*/
float profit;
profit=sell-cost;

/*Output*/
if(profit>0)
    printf("\nThe profit is: %.2f\n",profit);
else
    printf("\nThe incurred loss is %.2f\n",profit);

return 0;
}
```