

# Lab 3

## Net payable amount

```
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int choice;
    float price;
    float rate;

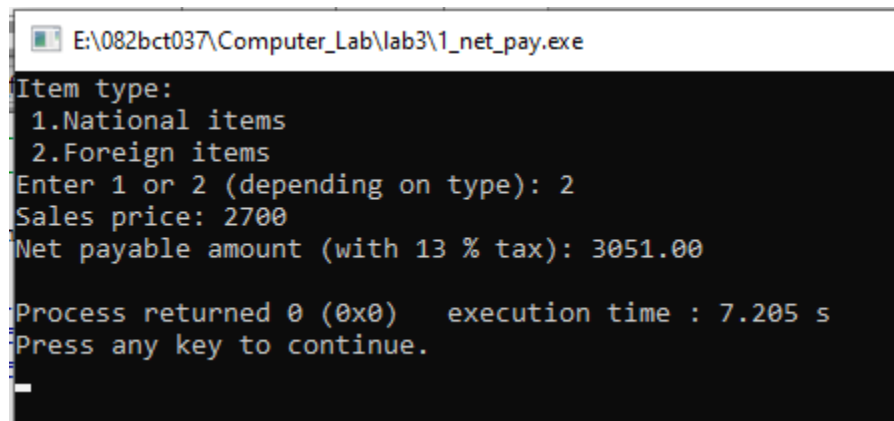
    printf("Item type: \n 1.National items \n 2.Foreign items \n");
    printf("Enter 1 or 2 (depending on type): ");
    scanf("%d", &choice);

    printf("Sales price: ");
    scanf("%f", &price);

    if(choice == 1)
        rate = 0.06;
    else if(choice == 2)
        rate = 0.13;
    else {
        printf("Please select between 1 or 2\n");
        return -1;
    }

    printf("Net payable amount (with %.0f%% tax): %.2f\n", rate * 100, price * (1+rate));

    return 0;
}
```



```
E:\082bct037\Computer_Lab\lab3\1_net_pay.exe
Item type:
1.National items
2.Foreign items
Enter 1 or 2 (depending on type): 2
Sales price: 2700
Net payable amount (with 13 % tax): 3051.00

Process returned 0 (0x0)   execution time : 7.205 s
Press any key to continue.
```

## Electricity Charge


```
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int units;
    float charge;

    printf("Enter units: ");
    scanf("%d", &units);

    if(units <= 50)
        charge = 0.5 * units;
    else if(units <= 100)
        charge = 100 + 0.65 * (units - 50);
    else if(units <= 200)
        charge = 230 + 0.80 * (units - 100);
    else if(units > 200)
        charge = 390 + 1 * (units - 200);

    printf("Charge: %.2f\n", charge);
    return 0;
}
```

 E:\082bct037\Computer\_Lab\lab3\2\_electricity\_charge.exe

Enter units: 650

Charge: 840.00

Process returned 0 (0x0)    execution time : 13.063 s

Press any key to continue.

## Net payable amount using switch

```
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int item_type;
    float sales_price, tax, net_amt;

    printf("Select the type of item:\n");
    printf("1. Grocery items\n");
    printf("2. Cosmetics items\n");
    printf("3. Clothing items\n");
    printf("4. Liquor items\n");
    printf("Enter item type: ");
    scanf("%d", &item_type);

    switch(item_type)
    {
        case 1:
            tax = 0.1;
            break;
        case 2:
            tax = 0.15;
            break;
        case 3:
            tax = 0.2;
            break;
        case 4:
            tax = 0.24;
            break;
        default:
            return -1;
            break;
    }

    printf("Enter the sales price: ");
    scanf("%f", &sales_price);

    net_amt = sales_price * (1 + tax);
    if(net_amt > 6000)
        net_amt *= 0.98;

    printf("Net payable amount: %.2f\n", net_amt);
    return 0;
}
```

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Select the type of item:

1. Grocery items
2. Cosmetics items
3. Clothing items
4. Liquor items

Enter item type: 3

Enter the sales price: 7680

Net payable amount: 9031.68

Process returned 0 (0x0) execution time : 6.528 s

Press any key to continue.