



A MICRO PROJECT UNDER THE COURSE

Of

“PROGRAMMING IN C”

By

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In Partial Fulfilment from Bachelor of Computer Application

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CERTIFICATE

This is certify that the micro project entitled "Restaurant billing system" under the course of “BCA” summited to the Course faculty, In partial fulfilment from Department of Bachelor of Computer Application is a record of original work done by Sanjay. S, Preethi. R during the period from March 2021 to May 2021 under my Guidance by the subject faculty and by our own interest we learned more from online source and we prepared this project with the title which is one of the most important topic in c programming language.

Head of Department

Signature of the Guide

INDEX

SR.NO	CONTENT	PAGE
1	Introduction	04
2	Aim of Project	04
3	Project coding	05
4	Project Output	15
5	Resources required	17
6	Skill Development	18
7	Conclusion	18

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❖ **RESTAURANT BILLING SYSTEM**

➤ **Introduction:**

The project is "Restaurant Billing System" software for monitoring and controlling the transactions in restaurant. Restaurant Billing System is a window application designed to help users maintain and organize restaurant.

The system process transaction and stores the resulting data.

The billing system should provide service to the user, collect user usage records, and generate invoices of each credit expire.

➤ **Aim of micro project:**

- 1) The aim of the study is to develop a billing system for hotel industry.
- 2) To design a system that can be used to store customers billing records.
- 3) To implement a system that can be used to retrieve and update customer billing records easily.

➤ Project Coding:

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

```
#include<conio.h>
```

```
struct about{
```

```
    char name[50];
```

```
    char adrs[100];
```

```
    char ch[25];
```

```
};
```

```
//prtline();
```

```
void main()
```

```
{
```

```
    struct about s[10];
```

```
    int n,qty;
```

```
    float price, gst, fgst,total;    //finalgst=fgst
```

```
    printf("\n*****
```

```
*****\n\n");
```

```

printf("                                WELCOME TO HOTEL
AMRUT\n\n");

printf("\n _____ Menu Card
_____ \n\n");

printf("\n 1) All Cold-drinks (200ml) - 25rs\n 2) Pizza-
200rs      || 9) Burger - 100rs\n                ||\n 3)
Sandwitch - 60rs  || 10)Chicken 65 - 60rs \n
||\n 4) Pasta - 40rs      || 11) Noodles - 60rs\n
||\n 5) Misal pav - 50rs   || 12) Pav Bhaji - 85rs\n
||\n 6) Chicken Rice -80rs || 13) Soup - 45rs\n
||\n 7) Samosa - 30rs     || 14) Dosa -60rs\n
||\n 8) Salad - 50rs      || 15) Paneer Masala -120rs\n ");

printf("\n+++++
+++++
n");

printf("\n CUSTOMER INFORMATION :\n ");

printf("\n Customer Name: ");

scanf("%s", &s[1].name);

printf("\n Customer Address: ");

scanf("%s", &s[1].adrs);

```

```
printf("\n*****  
*****\n\n");
```

```
printf("\n Enter the name of items(give by menu): ");
```

```
scanf("%s",&s[1].ch);
```

```
printf("\n Enter the serial number of item: ");
```

```
scanf("%d",&n);
```

```
printf("\n Enter the quantity of item: ");
```

```
scanf("%d",&qty);
```

```
switch(n)
```

```
{
```

```
case 1:
```

```
n=25;
```

```
gst=(n/100)*18;
```

```
fgst=gst*qty;
```

```
total=(qty*n)+fgst;
```

```
break;
```

```
case 2:
```

```
n=200;
```

```
gst=(n/100)*18;
```

```
fgst=gst*qty;  
total=(qty*n)+fgst;  
break;
```

case 3:

```
n=60;  
gst=(n/100)*18;  
fgst=gst*qty;  
total=(qty*n)+fgst;  
break;
```

case 4:

```
n=40;  
gst=(n/100)*18;  
fgst=gst*qty;  
total=(qty*n)+fgst;  
break;
```

case 5:

```
n=50;
```



```
gst=(n/100)*18;  
fgst=gst*qty;  
total=(qty*n)+fgst;  
break;
```

case 6:

```
n=80;  
gst=(n/100)*18;  
fgst=gst*qty;  
total=(qty*n)+fgst;  
break;
```

case 7:

```
n=30;  
gst=(n/100)*18;  
fgst=gst*qty;  
total=(qty*n)+fgst;  
break;
```

case 8:

```
n=50;  
  
gst=(n/100)*18;  
  
fgst=gst*qty;  
  
total=(qty*n)+fgst;  
  
break;
```

```
case 9:  
  
n=100;  
  
gst=(n/100)*18;  
  
fgst=gst*qty;  
  
total=(qty*n)+fgst;  
  
break;
```

```
case 10:  
  
n=60;  
  
gst=(n/100)*18;  
  
fgst=gst*qty;  
  
total=(qty*n)+fgst;  
  
break;
```

case 11:

n=60;

gst=(n/100)*18;

fgst=gst*qty;

total=(qty*n)+fgst;

break;

case 12:

n=85;

gst=(n/100)*18;

fgst=gst*qty;

total=(qty*n)+fgst;

break;

case 13:

n=45;

gst=(n/100)*18;

fgst=gst*qty;

total=(qty*n)+fgst;

break;

case 14:

n=60;

gst=(n/100)*18;

fgst=gst*qty;

total=(qty*n)+fgst;

break;

case 15:

n=120;

gst=(n/100)*18;

fgst=gst*qty;

total=(qty*n)+fgst;

break;

default:

{

printf("Invalid serial number!\n Try again!!");

break;

}

```
}
```

```
printf("\n ***** Hotel  
Amrut*****\n");
```

```
printf("\n customer name: %s\n",s[1].name);
```

```
printf("\n customer address: %s\n",s[1].adrs);
```

```
prtline();
```

```
printf("Item Name Given:  ");
```

```
printf("%s",s[1].ch);
```

```
printf("\n\nPrice(1):  ");
```

```
printf("%d",n);
```

```
printf("\n\nGst(1):  ");
```

```
printf("%.2f",gst);
```

```
printf("\n\nPrice(%d):  ",qty);
```

```
printf("%d",qty*n);
```

```
printf("\n\nGst:  ");
```

```
printf("%.2f",fgst);
```

```
printf("\n\n-----");
```

```

printf("\n\n\t Total : ");

printf("%0.2f",total);

printf("\n\n-----");

prtlne();

printf("\nThank you! do visit again\n");

getch();

}

prtlne()

{

printf("\n=====
=====
\n");

}

```

➤ Project Output:

```
C:\Users\sanjay\Desktop\projectrest.c\projectrest1.exe

*****
                        WELCOME TO HOTEL AMRUT
*****

_____ Menu Card _____

1) All Cold-drinks (200ml) - 25rs
2) Pizza- 200rs           || 9) Burger - 100rs
3) Sandwich - 60rs       || 10)Chicken 65 - 60rs
4) Pasta - 40rs           || 11) Noodles - 60rs
5) Misal pav - 50rs       || 12) Pav Bhaji - 85rs
6) Chicken Rice -80rs     || 13) Soup - 45rs
7) Samosa - 30rs          || 14) Dosa -60rs
8) Salad - 50rs           || 15) Paneer Masala -120rs

*****

CUSTOMER INFORMATION :
Customer Name: sanjay.s
Customer Address: Madanur

*****

Enter the name of items(give by menu): Burger
Enter the serial number of item: 9
Enter the quantity of item: 2
```

```
C:\Users\sanjay\Desktop\projectrest.c\projectrest1.exe
***** Hotel Amrut*****

customer name: sanjay.s
customer address: Madanur

=====
Item Name Given:      Burger
=====
Price(1):             100
Gst(1):               18.00
Price(2):             200
Gst:                  36.00
-----
                        Total : 236.00
-----
=====

Thank you! do visit again
_
```

2>

```
C:\Users\sanjay\Desktop\projectrest.c\projectrest1.exe

*****
                        WELCOME TO HOTEL AMRUT
*****

Menu Card

1) All Cold-drinks (200ml) - 25rs
2) Pizza- 200rs      || 9) Burger - 100rs
3) Sandwich - 60rs   || 10)Chicken 65 - 60rs
4) Pasta - 40rs      || 11) Noodles - 60rs
5) Misal pav - 50rs   || 12) Pav Bhaji - 85rs
6) Chicken Rice -80rs || 13) Soup - 45rs
7) Samosa - 30rs     || 14) Dosa -60rs
8) Salad - 50rs      || 15) Paneer Masala -120rs

*****

CUSTOMER INFORMATION :
Customer Name: Preethi
Customer Address: Vellore

*****

Enter the name of items(give by menu): Pizza
Enter the serial number of item: 2
Enter the quantity of item: 3
```

```
C:\Users\sanjay\Desktop\projectrest.c\projectrest1.exe
***** Hotel Amrut*****

customer name: Preethi
customer address: Vellore

=====
Item Name Given:      Pizza
Price(1):              200
Gst(1):                36.00
Price(3):              600
Gst:                   108.00

-----

Total : 708.00

-----

Thank you! do visit again

-----
Process exited after 44.55 seconds with return value 83
Press any key to continue . . . █
```


➤ Resources Required:

Sr. No.	Name of Resource/material	Specification	Qty
1.	Laptop/Computer	Intel(R) core(AT) (i3)	1
2.	Software Used	Dev C++	---
3.	Reference	Websites: https://www.geeksforgeeks.org/food-ordering-system-in-c/ Tutorial: https://www.javatpoint.com/c-programming-language-tutorial Book: Let Us C - by Yashvant Kanetkar	---

➤ Skills Developed:

1. Improved the ability to work quickly and with team members.
2. Improved communication and presentation skills.
3. Improved Ability to handle file operations.
4. Improved Ability to write different structures and functions.
5. Ability to handle exceptions also improved.

➤ Conclusion:

After Completion of “Restaurant Billing System” software program we Understood and learned the software development, validation of software program and other technical terms related to development of software program using ‘C’ programming language.