Billing system

```c
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
#define RESET "\x1B[0m" // FORMULA FOR BOLD LETTERS
#define BOLD "\x1B[1m" // FORMULA FOR BOLD
LETTERS  struct items{    char item[20];    float
price;    int qty;
};

struct
orders{
char
customer[5
0];    char
date[50];
char
time[20];
int
numOfItem
s;    struct
items
itm[50];
};


//functions to generate bills
void generateBillHeader(char name[50],char date[30],char time[20]){
        printf("\n\n");
        printf("\n\t  -----------------");
      printf("\n\t %s  ADV. Restaurant%s",BOLD,RESET);
      printf("\n\t  -----------------");
printf("\nDate:%s",date);
printf("\nTime:%s",time);
printf("\nInvoice To: %s",name);
      printf("\n");        printf("----------
---------------------------\n");
printf("Items\t\t");
printf("Qty\t");
printf("Total\t\t");        printf("\n------
--------------------------------");
printf("\n\n");


}
void generateBillBody(char item[30],int qty, float price){
   printf("%s\t\t",item);
printf("%d\t\t",qty);
printf("%.2f\t",qty*price);
```

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    printf("\n");
}

void generateBillFooter(float total){
    printf("\n");
float dis =
0.1*total;
float
netTotal=total-
dis;    float
cgst=0.09*net
Total,grandTot
al=netTotal +
2*cgst;//netTot
al + cgst + sgst
printf("---------
------------------
------------\n");
printf("Sub
Total\t\t\t%.2f"
,total);
    printf("\nDiscount @10%s\t\t\t%.2f","%",dis);
printf("\n\t\t\t-------");
    printf("\nNet Total\t\t\t%.2f",netTotal);
printf("\nCGST @9%s\t\t\t%.2f","%",cgst);
    printf("\nSGST @9%s\t\t\t%.2f","%",cgst);
    printf("\n-------------------------------------");
printf("\nGrand Total\t\t\t%.2f",grandTotal);
printf("\n------------------------------------\n");
}
int main(){ //MAIN FUNCTION

        int op,opt,n,i;
    struct
orders ord;
struct orders
order;
char
name[50];
FILE *fp;
//dashboard
int
dish,items,a
vailable;
if (items=0 && items!=available  )
        {
                printf(" this item is not available !!");
        }
}
```

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else if(items = available)
printf("\t\t\t\t\t\t\t %s DISPLAY OF MENU CARD %s\n\n",BOLD,RESET);

printf("\tCAFEMENIA\t1.COLD COFFEE 50/- \t\t2.BELGIAN HOT CHOCOLATE 60/-\t3.ICED HAZELNUT LATTE 80/- \t4.CAPPUCCINO 80/-\t5.CARAMELLATTE 90/-\t\n\n");

printf("\n\tBURGERMANIA \t1.VEG CHEESE BURGER 60/-\t2.ALOO TIKKI BURGER 50/\t3.DOUBLE CHEESE BURGER 70/-\t4.VEGETABLE BURGER 50/-\t\t5.POTATO CORN BURGER 60/-\t\n\n");

printf("\n\tPIZZAS \t\t1.MARGHERITA PIZZA 150/- \t2.VEG CHEESE PIZZA 120/-\t3.PANEER PIZZA 100/-\t4.SWEET CORN PIZZA 100/- \t5.THIN CRUST PIZZA 165/-\t\n\n");

printf("\n\tMILKSHAKE \t1.STRAWBERRY MILKSHAKE 50/- \t2. TOASTED MARSHMELLO 75/- \t3.CHOCOLATE BLEND 80/- \t\t4.HAZELNUT MILKSHAKE 90/-\t5.MOCHA MILKSHAKE 60/-\t\n\n");

printf("\n\tNUGGETS \t1.CHEESE NUGGETS 40/- \t\t2.POTATO NUGGETS 30/-\t\t3.PANEER NUGGETS 50/- \t\t4.CORN NUGGETS 45/- \t\t5.MIX VEG NUGGETS 40/-\t\n\n");

printf("\n\tDOUGHNUTS \t1.GLAZED DOUGHNUT 80/- \t\t2.SUGAR DOUGHNUT 60/-\t\t3.VANILLA DOUGHOUT 60/-\t\t4.CHOCOLATE RAISE 80/-\t5.CREAM FILLED DOUGHOUT 75/-\t\n\n");


printf("\n\tBROWNIES\t1.CHOCOLATE MINT 50/-\t\t2.CREAM CHEESE BROWNIE 70/-\t3. WALLNUT BROWNIE 100/- \t4.SILKLET BROWNIE 85/- \t\t5.S'MORES BROWNIE 90/-\t\n\n");

printf("\n\tICE-CREAMES \t1.ITALIAN ICECREAM 40/-\t\t2.CHOCO CHIP ICECREAM 50/- \t3.ROLLED ICECREAM 50/-\t\t4. PHILADELPHIA 40/-\t\t5.KULFI 30/-\t\n\n");

 {

   float total
= 0;    int
invoiceFoun
d = 0;
   printf("\n\nPlease select your prefered
operation");    printf("\n\n1.Generate
Invoice");    printf("\n\nYour choice:\t");

scanf("%d",&o
```

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pt);
fgetc(stdin);
switch(opt)
        {
    case 1:

        printf("\nPlease enter the name of the customer:\t");
fgets(ord.customer,50,stdin);
        ord.customer[strlen(ord.customer)-1] = 0;
strcpy(ord.date,__DATE__);
strcpy(ord.time,__TIME__);

        printf("\nPlease enter the number
of items:\t");         scanf("%d",&n);
ord.numOfItems = n;        for(
i=0;i<n;i++){          fgetc(stdin);
printf("\n\n");
        printf("Please enter the item %d:\t",i+1);
//         scanf("%d",&dish);
fgets(ord.itm[i].item,20,stdin);
        ord.itm[i].item[strlen(ord.itm[i].item)-1]=0;
printf("Please enter the quantity:\t");

        scanf("%d",&ord.itm[i].qty);
printf("Please enter the unit price:\t");
scanf("%f",&ord.itm[i].price);
        total += ord.itm[i].qty*ord.itm[i].price;
    }


generateBillHeader(ord.customer,ord.date,ord.time
);       for( i=0;i<ord.numOfItems;i++)
                {
        generateBillBody(ord.itm[i].item,ord.itm[i].qty,ord.itm[i].price);
    }
    generateBillFooter(total);
    break;

    case 2:
    printf("THANK YOU \n");
if(!invoiceFound){
        printf("Sorry the invoice for this billing system does not exist",name);
    }
fclose
(fp);
break
;
     case 3:
```

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        printf("\t\t\t BYE BYE :)");

exit(0);
break;

    default:
    printf("SORRY YOU INSERTED INVALID
OPTION");    break;
 }
    printf("\n\t THANK YOU VISIT AGAIN \n\n\t Bye Bye :)\n\n");
printf("\n\n");

    return 0;
}
}
```