

<<HOTEL BILLING SYSTEM>>

21CSS101J – PROGRAMMING FOR PROBLEM SOLVING

Mini Project Report

Submitted by

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Title : MINI PROJECT- HOTEL BILLING SYSTEM

AIM : To calculate Bill in Hotel

Algorithm:

- step 1: Start
- step 2: print the schedules
- step 3: Read the schedule based on use of user
- step 4: Based on the schedule print the menu with code and prize
- step 5: read the code of item and quantity of plates
- step 6: calculate the net amount of all items
- step 7: display net
- step 8: read charges and add to net
- step 8: based on net allocate discount
- step 9: print net prize with detection of discount
- step 10: print bill
- step 11: read selection of transaction type
- step 12: print transaction status
- step 13: stop


```

else if (z == 2){
    for (int i = 0; i < count; i++){
        int e = c[i], f = d[i], g = a[i];
        switch (e){
            case 1:
                printf ("FULL MEALS\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 2:
                printf ("PLATE MEALS\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 3:
                printf ("FRIED RICE\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 4:
                printf ("CHICKEN BIRYANI\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 5:
                printf ("MUTTON BIRYANI\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 6:
                printf ("VEG BIRYANI\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 7:
                printf ("SPC NVEG CURRY\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 8:
                printf ("SPC VEG CURRY\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 9:
                printf ("CURD RICE\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 10:
                printf ("SPECIAL ITEM\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
        }
    }
}
else if (z == 3){
    for (int i = 0; i < count; i++){
        int e = c[i], f = d[i], g = a[i];
        switch (e){
            case 1:
                printf ("FULL MEALS\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 2:
                printf ("PLATE MEALS\t\t%d*%d\t\t%d\n", f, g, f * g);
                break;
            case 3:

```

```

        printf ("FRIED RICE\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 4:
        printf ("CHICKEN BIRYANI\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 5:
        printf ("MUTTON BIRYANI\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 6:
        printf ("VEG BIRYANI\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 7:
        printf ("SPC NVEG CURRY\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 8:
        printf ("SPC VEG CURRY\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 9:
        printf ("CURD RICE\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 10:
        printf ("SPECIAL ITEM\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 11:
        printf ("CHAPPATI\t\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 12:
        printf ("PURI\t\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 13:
        printf ("IDLY\t\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    case 14:
        printf ("DOSA\t\t\t%d*%d\t\t%d\n", f, g, f * g);
        break;
    }
}

}

void display (int z){
    if (z == 1)
    {
        printf("1.Idly    =20\t\t2.Dosa    =25\n3.Vada    =25\t\t4.Puri
        =30\n5.Ponagal  =30\t\t6.chappati =25\n7.upma    =30\t\t8.uttapam
        =25\n");
    }
}

```

```

else if (z == 2)
{
printf("1.full meals      =120\t2.plate meals    =90\n3.fried rice
      =70\t4.chiken biryani =100\n5.mutton biryani  =120\t6.veg biryani
      =80\n7.spc nonveg curry =50\t8.spc veg curry  =40\n9.curd rice
      =50\t10.special item  =40\n");
else if (z = 3)
{
printf("1.full meals      =120\t2.plate meals    =90\n3.fried rice
      =70\t4.chiken biryani =100\n5.mutton biryani  =120\t6.veg biryani
      =80\n7.spc nonveg curry =50\t8.spc veg curry  =40\n9.curd rice
      =40\t10.special item  =35\n11.Chapati        =25\t12.Puri
      =30\n13.ldly          =20\t14.Dosa           =25\n");
}
}
}

```

```

void tiffin (int z){
printf ("\t\tGOOD MORNING\n");
int count=0;
int net = 0;
int i, j;
int c[20], d[20];
int a[10] = { 20, 25, 25, 30, 30, 25, 30, 25 };
display (z);
printf ("Enter ITEM CODE\t\tEnter NO.OF PLATES\n");
for (int b = 1; i != 0; b++)
{
scanf ("%d", &i);
c[b - 1] = i;
scanf ("%d", &j);
d[b - 1] = j;
printf ("\n");
int sum = (a[i - 1] * j);
net = net + sum;
count++;
}
printf ("net\t\t= %d\n", net);
printf ("enter 'y' for adding charges : ");
char ch1;
int charge = 0;
scanf ("%s", &ch1);
if (ch1 == 'y' || ch1 == 'Y')
{
printf ("ENTER CHARGES : ");
scanf ("%d", &charge);
}
net = net + charge;
}

```

```

int disc = discount (net);
if (net > 0)
{
    printf ("net\t\t=%d\n", net - disc);
    printf ("\nDo YOU Want to print the bill(y/n):");
    char ch;
    scanf ("%s", &ch);
    if (ch == 'y' || ch == 'Y')
    {
        bill (z, c, d, a, count-1);
    }
    printf ("CHARGES \t\t\t=%d\n", charge);
    printf ("DISCOUNT AMOUNT\t\t\t=%d", disc);
    printf ("\nTOTAL BILL = \t\t\t=%d\n", net - disc);
    payment(net-disc);
}
}

void lunch (int z){
    printf ("\t\t\tGOOD AFTERNOON\n");
    int count=0;
    int net = 0;
    int i, j;
    int c[20], d[20];
    int a[20] = { 120, 90, 70, 100, 120, 80, 50, 40, 50, 40 };
    display (z);
    printf ("Enter ITEM CODE\t\tEnter NO.OF PLATES\n");
    for (int b = 1; i != 0; b++)
    {
        scanf ("%d", &i);
        c[b - 1] = i;
        scanf ("%d", &j);
        d[b - 1] = j;
        printf ("\n");
        int sum = (a[i - 1] * j);
        net = net + sum;
        count++;
    }
    printf ("net\t\t\t=%d\n", net);
    printf ("enter 'y' for adding charges : ");
    char ch1;
    int charge = 0;
    scanf ("%s", &ch1);
    if (ch1 == 'y' || ch1 == 'Y')
    {
        printf ("ENTER CHARGES : ");
        scanf ("%d", &charge);
    }
}

```



```

net = net + charge;
int disc = discount (net);
if (net > 0)
{
    printf ("net\t\t=%d\n", net - disc);
    printf ("\nDo YOU Want to print the bill(y/n):");
    char ch;
    scanf ("%s", &ch);
    if (ch == 'y' || ch == 'Y')
    {
        bill (z, c, d, a, count-1);
    }
    printf ("CHARGES \t\t\t=%d\n", charge);
    printf ("DISCOUNT AMOUNT\t\t\t=%d", disc);
    printf ("\nTOTAL BILL = \t\t\t=%d\n", net - disc);
    payment(net-disc);
}
}

```

```

void dinner (int z){
    printf ("\t\tGOOD EVENING\n");
    int count=0;
    int net = 0;
    int i, j;
    int c[20], d[20];
    int a[20] = { 120, 90, 70, 100, 120, 80, 50, 40, 40, 35, 25, 30, 20, 25 };
    display (z);
    printf ("Enter ITEM CODE\t\tEnter NO.OF PLATES\n");
    for (int b = 1; i != 0; b++)
    {
        scanf ("%d", &i);
        c[b - 1] = i;
        scanf ("%d", &j);
        d[b - 1] = j;
        printf ("\n");
        int sum = (a[i - 1] * j);
        net = net + sum;
        count++;
    }
    printf ("net\t\t\t=%d\n", net);
    printf ("enter 'y' for adding charges : ");
    char ch1;
    int charge = 0;
    scanf ("%s", &ch1);
    if (ch1 == 'y' || ch1 == 'Y')
    {
        printf ("ENTER CHARGES : ");
        scanf ("%d", &charge);
    }
}

```

```

    }
    net = net + charge;
    int disc = discount (net);
    if (net > 0)
    {
        printf ("net\t\t=%d\n", net - disc);
        printf ("\nDo YOU Want to print the bill(y/n):");
        char ch;
        scanf ("%s", &ch);
        if (ch == 'y' || ch == 'Y')
        {
            bill (z, c, d, a,count-1);
        }
        printf ("CHARGES \t\t\t%d\n", charge);
        printf ("DISCOUNT AMOUNT\t\t\t=%d", disc);
        printf ("\nTOTAL BILL = \t\t\t%d\n", net - disc);
        payment(net-disc);
    }
}

```

```

int discount (int net){
    int dis;
    printf ("\nENTER DISCOUNT PERCENTAGE(100 for auto) : ");
    scanf ("%d", &dis);
    if (dis == 100)
    {
        if (net > 500)
            dis = 4;
        else if (net > 1000)
            dis = 7;
        else if (net > 2000)
            dis = 15;
        else if (net > 2500)
            dis = 20;
        else
            dis = 0;
    }
    int damount = net / 100 * dis;
    return damount;
}

```

```

int payment(int net){
    int ch1;
    printf("CHOOSE PAYMENT MEHTHOD : \n");
    printf("\t\t1.CASH\n\t\t2.CARD\n\t\t3.UPI\n");
    printf("enter transaction method : ");
    scanf("%d",&ch1);
    if(ch1==1){
        int mon;

```

```

printf("net amount: \t%d \ncash given is : \t ",net);
scanf("%d",&mon);
if(mon>=net){
    int change=mon-net;
    if(change>0)
        printf("change returned is : \t%d\n",change);
    printf("TRANSACTION IS SUCCESSFULL\n");
}
else{
    printf("MONEY INSUFFICIENT\n");
    payment(net);
}
}
else if(ch1==2 || ch1==3){
    int ch2;
    printf("ENTER 1. for TRANSACTION SUCCESSFULL\nENTER 2. for\nTRANSACTION DENAYED\n");
    printf("Enter TRANSACTION status : ");
    scanf("%d",&ch2);
    if(ch2==1){
        printf("TRANSACTION IS SUCCESSFULL\n");
    }
    else if(ch2==2){
        printf("TRANSACTION DENAYED\n");
        payment(net);
    }
    else{
        printf("INVALID INPUT\n");
        payment(net);
    }
}
else {
    printf("INVALID INPUT\n");
    payment(net);
}
}

void main (){
    static int n1, n2, n3, net;
    char ch;
    int a = time1 ();
    switch (a)
    {
        case 1:
            tiffin (a);
            break;
        case 2:

```

```

    lunch (a);
    break;
case 3:
    dinner (a);
    break;
default:
    printf ("invalid input");
    break;
}
printf("\t\t****THANK YOU****\n\t\t****VIST AGAIN****\n");
}

```

Result :

```

Enter code:
      1.tiffin
      2.lunch
      3.dinner
1
      GOOD MORNING
1.Idly      =20      2.Dosa      =25
3.Vada      =25      4.Puri      =30
5.Ponagal   =30      6.chappati =25
7.upma      =30      8.uttapam =25
Enter ITEM CODE      Enter NO.OF PLATES
1 3
2 5
4 7
0 0

net          =395
enter 'y' for adding charges : y
ENTER CHARGES : 50

ENTER DISCOUNT PERCENTAGE(100 for auto) : 100
net          =445

Do YOU Want to print the bill(y/n):y
*****
      ****HOTEL SRM****
item          qty*prize      total
IDLY          3*20          60
DOSA          5*25          125
PURI          7*25          175
CHARGES              50
DISCOUNT AMOUNT      =0
TOTAL BILL =          445
CHOOSE PAYMENT MEHTHOD :
      1.CASH
      2.CARD
      3.UPI
enter transaction method : 1
net amount:      445
cash given is :      500
change returned is :      55
TRANSACTION IS SUCCESSFULL
      ****THANK YOU****
      ***VIST AGAIN***

```

Conclusion:

the above program for hotel billing executed sucessfully