****

**FIRST YEAR DIPLOMA ENGINERING (I - SCHEME)**

**A**

**MICRO PROJECT**

**“Canteen Billing System”**

**SUBMITTED BY**

**1. Mr. Patil Pratik Kumar**

**ADVISOR**

**Mr. R. V. Mundhe**

**(DEPARTMENT OF COMPUTER ENGINEERING)**

***CERTIFICATE***

This is to certify that, as part of the partial fulfillment of the Three Years Diploma Course for the semester second, the bonafied students studying in First Year Diploma(Computer Engineering)., I Scheme ,Mr. Patil Pratik Kumar, Mr. Bhawar Adesh Manohar, Mr. Patil Aditya Bapuso, Mr. Pandit Shubham Dattatray, Mr. Mulani Adam Ahemad, Miss. Thorat Riddhi Pramod, Miss. Lohar Shreya Vijay, Miss. Kumbhar Vaishnavi Sadanand, Miss. Kadam Tanaya Sunil, Miss. Lokhande Pratiksha Shamrao have completed the project report titled as, “**Canteen Billing System**” For the subject –Programming in C (22226) under the guidance of Mr. R. V. Mundhe and submitted it to Govt. Polytechnic Karad. The information presented in this project report has not been submitted earlier.

**Mr. R. V . Mundhe Ms. S. B. Pail**

**HEAD OF DEPARTMENT**

**(GUIDE)**

Date: /03 /2018

Place: Govt. Polytechnic, Karad

**ACKNOWLEDGEMENT**

We take it is an opportunity to thank all those who have directly and indirectly inspired, directed and assisted us towards successful completion of this project report.

We express our sincere thanks to the Principal, Dr. Prof. V.S.Bandal & the Head of Department, Ms. S. B. Patil for having us allowed to submit this report as part of our academics learning.

We express our sincere thanks to Mr. R. V. Mundhe*,* Lecturer in Computer Engineering, Department of Computer Engineering , Govt. Polytechnic Karad for encouragement throughout the project report and guideline in designing & working out this project.

We are also grateful to team of project named as “**Canteen Billing System**” for their highly encouraging and co-operative attitude. We express our sense of gratitude towards our friend and parents for their constant moral support during project report.

Place: Govt. Polytechnic, Karad

Date: / 03/2018

Yours Sincerely,

Mr. Patil Pratik Kumar,

**INDEX**

|  |  |
| --- | --- |
| **Sr. No.** | **Content** |
|  | Introduction |
|  | Features of Project |
|  | Data structures used |
|  | Code |
|  | Output |

**Introduction**

Every College has Canteen and this Canteen has billing machine. This billing machines are also available in hotels and restaurants. Some are automatic and some are manual It was interesting for us that how the billing machine works. So, we decided to create a program on billing system.

So, we have created the interesting program in which program will ask you for the best choice of the product of customer and quantity of product. The plus point of the program is that the customer can input many products at a time and finally get the total bill.

We have created the program by using switch case function. For a single product we created a separate case for inputting many items we have given loop to the switch. For coming out from the loop we have created a second case itself. Finally we have added all cases for the final bill.

**Features of Program**

The features of program for canteen billing system are:

1. User is free to choose any product which he wants.
2. User can choose many products at a time and get the final bill at that point.

1. User also free to choose quantity of products.
2. The switch case is used in proper way in the program.
3. The looping is also used in the program.
4. The program is easy as it can be easily operated by any common user.
5. Their accuracy in the program as the final bill is accurately printed.

**Data Structures Used**

The data structures used are:

1. **User Defined Functions:**

The User Defined Functions are used for looping process. The functions are also used to store value of the selected quantities. We have used three functions which are:

* void abc(void): To store values of quantity selected.
* void call(void): To again ask what the customer wants.
* void total(void): To print the final bill.

1. **Arrays:**

The two dimensional array is used to store the name items which are available in canteen. The one dimensional array is used price is used to store the prices of this items. The one dimensional array qty is used to store the qty of selected product.

**Code**

#include<stdio.h>

#include<conio.h>

void abc(void);

void total(void);

void call(void);

int qty[7]={0};

char item[7][10]={"tea","vadapav","samosa","misal","dosa","pohe","colddrink"};

int price[7]={6,10,10,17,22,15,17};

int a,b,c,d,e,f,g;

char other;

void main()

{

int i,choice;

clrscr();

printf("\t\*\*\*\*\*\*\*\*\*\* Welcome of Canteen Billing System \*\*\*\*\*\*\*\*\*\*\n\t\t\t\t\t\n");

printf("\nEnter Choice\n1:Choice\n2:bill\n");

scanf("%d",&choice);

clrscr();

if(choice==1)

{

abc();

}

else if(choice==2)

total();

else

printf("Enter 1 for choice and 2 for Bill");

}

void call(void)

{

int choice;

clrscr();

printf("\nEnter Choice\n1:Choice\n2:bill\n");

scanf("%d",&choice);

clrscr();

if(choice==1)

{

abc();

}

else if(choice==2)

total();

else

printf("Enter 1 for choice and 2 for Bill");

}

void abc(void)

{

int i;

printf("\t\twhat do you want...???\t\t");

printf("\n1:Tea=6\n2:Vadapav=10\n3:Samosa=10\n4:Misal= 17\n5:Dosa=22\n6:

Pohe=15\n7:colddrink=17\n");

scanf("%d",&i);

switch(i)

{

case 1:

printf("\nEnter quantity of Tea\n");

scanf("%d",&qty[0]);

a=price[0]\*qty[0];

call();

break;

case 2:

printf("\nEnter quantity of Vadapav\n");

scanf("%d",&qty[1]);

b=price[1]\*qty[1];

call();

break;

case 3:

printf("\nEnter quantity of Samosa\n");

scanf("%d",&qty[2]);

c=price[2]\*qty[2];

call();

break;

case 4:

printf("\nEnter quantity of Misal\n");

scanf("%d",&qty[3]);

d=price[3]\*qty[3];

call();

break;

case 5:

printf("\nEnter quantity of Dosa\n");

scanf("%d",&qty[4]);

e=price[4]\*qty[4];

call();

break;

case 6:

printf("\nEnter quantity of Pohe\n");

scanf("%d",&qty[5]);

f=price[5]\*qty[5];

call();

break;

case 7:

printf("\nEnter quantity of Colddrink\n");

scanf("%d",&qty[6]);

g=price[6]\*qty[6];

call();

break;

default:

printf("\nNot Available\n");

call();

}

}

void total(void)

{

int i,bill;

printf("Items\t\t\tQuantity\t\tAmount");

if(qty[0]!=0)

printf("\nTea\t\t\t%d\t\t\t%d",qty[0],a);

if(qty[1]!=0)

printf("\nVadapav\t\t\t%d\t\t\t%d",qty[1],b);

if(qty[2]!=0)

printf("\nSamosa\t\t\t%d\t\t\t%d",qty[2],c);

if(qty[3]!=0)

printf("\nMisal\t\t\t%d\t\t\t%d",qty[3],d);

if(qty[4]!=0)

printf("\nDosa\t\t\t%d\t\t\t%d",qty[4],e);

if(qty[5]!=0)

printf("\nPohe\t\t\t%d\t\t\t%d",qty[5],f);

if(qty[6]!=0)

printf("\nColddrik\t\t%d\t\t\t%d",qty[6],g);

bill=a+b+c+d+e+f+g;

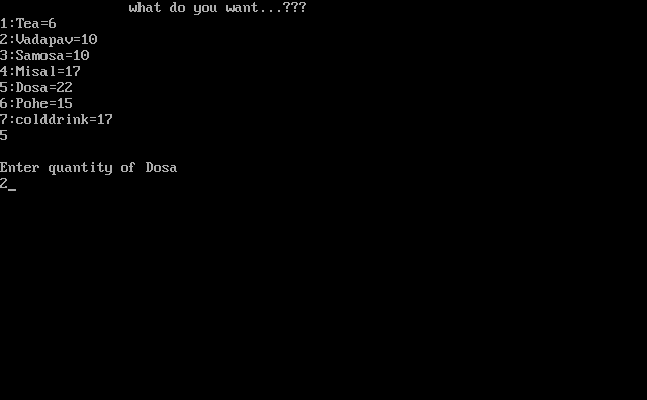
printf("\n\n\tTotal Bill= %d",bill);

printf("\n\t\t\*\*\*\*\*\*\*\*\*\* Thanks For Visiting\*\*\*\*\*\*\*\*\*\*");

getch();

}

**Output Screenshots**

****

