**PIC-Mini Project**

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**Div:- COMPS A Batch: A3**

**Problem statement**: *To print the bill for a customer at a pizzeria.*

**Input specifications**:

1. What should be the size of the pizza?
2. What is the standard tax applicable?
3. Should the option of home delivery be made available?
4. Should gluten free meals be made available?

**Output specifications**:

1. In case of a late delivery, should be order be given free of cost?
2. Should a soft copy of the bill be sent to the customer’s email?
3. Should the total savings of a customer in case of any discount be displayed on the screen?

**Special processing**:

1. Should an option to add extra toppings be made available?
2. In case of loss of connection during a transaction, should it be cancelled or delayed?

**Code**:

|  |  |
| --- | --- |
| #include<stdio.h> |  |
|  | int Pizza(); |
|  | int Appetizers(); |
|  | int Bevarages\_Desserts(); |
|  | int Bill(); |
|  | static char order[100][100]; |
|  | static int cost[100]; |
|  | static int k=0; |
|  |  |
|  |  |
|  |  |
|  | void main() |
|  | { |
|  |  |
|  | printf("\t\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*WELCOME TO JOEY'S PIZZA\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\t\t\n"); |
|  | printf("\t\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n"); |
|  | printf("\t\t\t\t Contact: 022 28762222 022 28743333\n"); |
|  | printf("\t\t\t\t Address: hop 1, Plot D, Samruddhi Complex,\n \t\t\t Chincholi Bunder Road, Mindspace, Malad West, Mumbai\n"); |
|  | printf("\t\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n"); |
|  | int choice=0;int flag=1; |
|  | while(flag==1) |
|  | { |
|  | printf("\t\t\t Enter your choice:\n\t\t\t 1.Pizza\n\t\t\t 2.Appetizers\n\t\t\t 3.Bevarages&Desserts\n\t\t\t 4.Bill\n"); |
|  | scanf("%d",&choice); |
|  | switch(choice) |
|  | { |
|  | case 1: |
|  | { |
|  | flag=0; |
|  | Pizza(); |
|  | break; |
|  | } |
|  | case 2: |
|  | { |
|  | flag=0; |
|  | Appetizers(); |
|  | break; |
|  | } |
|  | case 3: |
|  | { |
|  | flag=0; |
|  | Bevarages\_Desserts(); |
|  | break; |
|  | } |
|  | case 4: |
|  | { |
|  | flag=0; |
|  | Bill(); |
|  | break; |
|  | } |
|  | default: |
|  | { |
|  | printf("\n\t\t\t Enter correct choice\n"); |
|  | flag=1; |
|  | } |
|  | } |
|  | if(flag==0) |
|  | { |
|  | break; |
|  | } |
|  | else |
|  | { |
|  | continue; |
|  | } |
|  | } |
|  | } |
|  | int Pizza() |
|  | { |
|  | char pizzas[10][100]={"Garden Fresh\t\t\tRs.340","Chef's Favourite\t\tRs.370","Mexican Bonanza\t\t\tRs.370", |
|  | "Paneer Makhani\t\t\tRs.450","Vegetarian Feast\t\tRs.585", |
|  | "Chicken Tikka\t\t\tRs.470","Joeys's Special\t\t\tRs.625", |
|  | "Italian Special\t\t\tRs.470","Tornado\t\t\t\tRs.575","Chicken Feast\t\t\tRs.650"}; |
|  | int pizzacost[10]={340,370,370,450,585,470,625,470,575,650}; |
|  | printf("Veg Pizzas:\n\n"); |
|  | for(int i=0;i<10;i++) |
|  | { |
|  | if(i==5) |
|  | {printf("\nNon Veg Pizzas\n\n");} |
|  | printf("%d.\t\t\t%s\n",i+1,pizzas[i]); |
|  | } |
|  | int a=0;int i=0;int ch=0; |
|  | while(i==0) |
|  | { |
|  | printf("Enter the pizza you want\n"); |
|  | scanf("%d",&a); |
|  | for(int j=0;j<100;j++) |
|  | { |
|  | order[k][j]=pizzas[a-1][j]; |
|  | } |
|  | cost[k]=pizzacost[a-1]; |
|  | k++; |
|  | printf("Do you want one more pizza?(1/0)\n"); |
|  | scanf("%d",&ch); |
|  | if(ch==1) |
|  | { |
|  | continue; |
|  | } |
|  | else if(ch==0) |
|  | { |
|  | break; |
|  | } |
|  | } |
|  | int choice=0;int flag=1; |
|  | while(flag==1) |
|  | { |
|  | printf("\t\t\t Enter your choice:\n\t\t\t 1.Home\n\t\t\t 2.Appetizers\n\t\t\t 3.Bevarages&Desserts\n\t\t\t 4.Bill\n"); |
|  | scanf("%d",&choice); |
|  | switch(choice) |
|  | { |
|  | case 1: |
|  | { |
|  | flag=0; |
|  | main(); |
|  | break; |
|  | } |
|  | case 2: |
|  | { |
|  | flag=0; |
|  | Appetizers(); |
|  | break; |
|  | } |
|  | case 3: |
|  | { |
|  | flag=0; |
|  | Bevarages\_Desserts(); |
|  | break; |
|  | } |
|  | case 4: |
|  | { |
|  | flag=0; |
|  | Bill(); |
|  | break; |
|  | } |
|  | default: |
|  | { |
|  | printf("\n\t\t\t Enter correct choice\n"); |
|  | flag=1; |
|  | } |
|  | } |
|  | if(flag==0) |
|  | { |
|  | break; |
|  | } |
|  | else |
|  | { |
|  | continue; |
|  | } |
|  | } |
|  | } |
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|  | int Appetizers() |
|  | { |
|  | char appetizers[10][100]={"Garlic Bread\t\t\tRs.75","Cheese Garlic Bread\t\tRs.110","Super Cheese Garlic Bread-Veg\tRs.120", |
|  | "Super Cheese Garlic Bread-NonVegRs.160","Cheese Sticks \t\t\tRs.110", |
|  | "Garden Fresh\t\t\tRs.170","Tuna\t\t\t\tRs.250", |
|  | "Roasted Chicken\t\t\tRs.230","Chciken Crust Sandwich\t\tRs.190","Paneer Cheese Sandwich\t\tRs.160"}; |
|  | int appetizerscost[10]={75,110,120,160,110,170,250,230,190,160}; |
|  | printf("Appetizers:\n\n"); |
|  | for(int i=0;i<10;i++) |
|  | { |
|  | printf("%d.\t\t\t%s\n",i+1,appetizers[i]); |
|  | } |
|  | int a=0;int i=0;int ch=0; |
|  | while(i==0) |
|  | { |
|  | printf("Enter the appetizer you want\n"); |
|  | scanf("%d",&a); |
|  | for(int j=0;j<100;j++) |
|  | { |
|  | order[k][j]=appetizers[a-1][j]; |
|  | } |
|  | cost[k]=appetizerscost[a-1]; |
|  | k++; |
|  | printf("Do you want one more appetizers?(1/0)\n"); |
|  | scanf("%d",&ch); |
|  | if(ch==1) |
|  | { |
|  | continue; |
|  | } |
|  | else if(ch==0) |
|  | { |
|  | break; |
|  | } |
|  | } |
|  | int choice=0;int flag=1; |
|  | while(flag==1) |
|  | { |
|  | printf("\t\t\t Enter your choice:\n\t\t\t 1.Home\n\t\t\t 2.Pizza\n\t\t\t 3.Bevarages&Desserts\n\t\t\t 4.Bill\n"); |
|  | scanf("%d",&choice); |
|  | switch(choice) |
|  | { |
|  | case 1: |
|  | { |
|  | flag=0; |
|  | main(); |
|  | break; |
|  | } |
|  | case 2: |
|  | { |
|  | flag=0; |
|  | Pizza(); |
|  | break; |
|  | } |
|  | case 3: |
|  | { |
|  | flag=0; |
|  | Bevarages\_Desserts(); |
|  | break; |
|  | } |
|  | case 4: |
|  | { |
|  | flag=0; |
|  | Bill(); |
|  | break; |
|  | } |
|  | default: |
|  | { |
|  | printf("\n\t\t\t Enter correct choice\n"); |
|  | flag=1; |
|  | } |
|  | } |
|  | if(flag==0) |
|  | { |
|  | break; |
|  | } |
|  | else |
|  | { |
|  | continue; |
|  | } |
|  | } |
|  |  |
|  | } |
|  |  |
|  |  |
|  |  |
|  |  |
|  | int Bevarages\_Desserts() |
|  | { |
|  | char Bevarages\_Desserts[10][100]={"Coke\t\t\t\tRs.75","7 UP\t\t\t\tRs.75","Sprite\t\t\t\tRs.75", |
|  | "Fanta\t\t\t\tRs.75","Thumbs UP \t\t\tRs.75", |
|  | "Choco Lava Cake\t\t\tRs.170","Sizzling Brownie\t\tRs.250", |
|  | "Hot Chocolate\t\t\tRs.230","Chocolate Mousse\t\tRs.190","Caramel Custard\t\t\tRs.160"}; |
|  | int Bevarages\_Dessertscost[10]={75,75,75,75,75,170,250,230,190,160}; |
|  | printf("Appetizers:\n\n"); |
|  | for(int i=0;i<10;i++) |
|  | { |
|  | printf("%d.\t\t\t%s\n",i+1,Bevarages\_Desserts[i]); |
|  | } |
|  | int a=0;int i=0;int ch=0; |
|  | while(i==0) |
|  | { |
|  | printf("Enter the Bevarage or Dessert you want\n"); |
|  | scanf("%d",&a); |
|  | for(int j=0;j<100;j++) |
|  | { |
|  | order[k][j]=Bevarages\_Desserts[a-1][j]; |
|  | } |
|  | cost[k]=Bevarages\_Dessertscost[a-1]; |
|  | k++; |
|  | printf("Do you want one more Bevarages or Desserts?(1/0)\n"); |
|  | scanf("%d",&ch); |
|  | if(ch==1) |
|  | { |
|  | continue; |
|  | } |
|  | else if(ch==0) |
|  | { |
|  | break; |
|  | } |
|  | } |
|  | int choice=0;int flag=1; |
|  | while(flag==1) |
|  | { |
|  | printf("\t\t\t Enter your choice:\n\t\t\t 1.Home\n\t\t\t 2.Pizza\n\t\t\t 3.Appetizers\n\t\t\t 4.Bill\n"); |
|  | scanf("%d",&choice); |
|  | switch(choice) |
|  | { |
|  | case 1: |
|  | { |
|  | flag=0; |
|  | main(); |
|  | break; |
|  | } |
|  | case 2: |
|  | { |
|  | flag=0; |
|  | Pizza(); |
|  | break; |
|  | } |
|  | case 3: |
|  | { |
|  | flag=0; |
|  | Appetizers(); |
|  | break; |
|  | } |
|  | case 4: |
|  | { |
|  | flag=0; |
|  | Bill(); |
|  | break; |
|  | } |
|  | default: |
|  | { |
|  | printf("\n\t\t\t Enter correct choice\n"); |
|  | flag=1; |
|  | } |
|  | } |
|  | if(flag==0) |
|  | { |
|  | break; |
|  | } |
|  | else |
|  | { |
|  | continue; |
|  | } |
|  | } |
|  | } |
|  |  |
|  |  |
|  |  |
|  |  |
|  | int Bill() |
|  | { |
|  | int total=0; |
|  | for(int i=0;i<k;i++) |
|  | { |
|  | total=total+cost[i]; |
|  | } |
|  | float CGST=total\*0.25; |
|  | float SGST=total\*0.25; |
|  | float total2=total+CGST+SGST; |
|  | printf("\t\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*JOEY'S PIZZA PVT.LTD.\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\t\t\n"); |
|  | printf("\t\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n"); |
|  | printf("\t\t\t\t Contact: 022 28762222 022 28743333\n"); |
|  | printf("\t\t\t\t Address: Shop 1, Plot D, Samruddhi Complex,\n \t\t\t Chincholi Bunder Road, Mindspace, Malad West, Mumbai\n"); |
|  | printf("\t\t\t\t\t Site:www.joeyspizza.com\n"); |
|  | printf("\t\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n"); |
|  | printf("\t\t\t \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\n\n"); |
|  | printf("\t\t\t Sr.\t\t\t Items\t\t\t Price\n"); |
|  | printf("\t\t\t \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\n\n"); |
|  | for(int i=0;i<k;i++) |
|  | { |
|  | printf("\t\t\t %d.\t\t\t%s\n",i+1,order[i]); |
|  | } |
|  | printf("\t\t\t \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\n\n"); |
|  | printf("\t\t\t Sub Total=Rs.%d\n",total); |
|  | printf("\t\t\t CGST=Rs.%f\n",CGST); |
|  | printf("\t\t\t SGST=Rs.%f\n",SGST); |
|  | printf("\t\t\t \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\n\n"); |
|  | printf("\t\t\t Grand Total=Rs.%f\n",total2); |
|  | printf("\t\t\t \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\n\n"); |
|  | } |

**Output**:









