#include<stdio.h>

#include<stdlib.h>

int again;

int total=0;

float gst,cgst,sgst;

int bfrate[7][2]={ {0,30},

{1,35},

{2,40},

{3,20},

{4,15},

{5,20},

{6,30}

};

int lunchrate[7][2]={{0,80},

{1,120},

{2,20},

{3,120},

{4,150},

{5,160},

{6,30}};

int dinner\_rate[7][2]={{0,65},

{1,50},

{2,70},

{3,80},

{4,65},

{5,110},

{6,50}};

int purchased[][3]={{0,0},

{0,0},

{0,0},

{0,0},

{0,0},

{0,0},

{0,0}

};

int temp[][3]={{0,0},

{0,0},

{0,0},

{0,0},

{0,0},

{0,0},

{0,0}

};

void bfast(char bfmenu[][100]);

void lunch( char lunchmenu[][100]);

void dinner(char dinnermenu[][100]);

void main\_menu();

void display();

void lunch\_menucard();

void dinner\_menu();

void display\_bf\_bill(char bfmenu[][100]);

void display\_lunch\_bill(char lunchmenu[][100]);

void display\_dinner\_bill(char dinnermenu[][100]);

void display\_bfmenu();

void repeatbf(char bfmenu[][100]);

void repeatlunch(char lunchmenu[][100]);

void repeatdinner(char dinnermenu[][100]);

void display\_total\_words();

void main()

{

char bfmenu[][100]={"toast","Idli-wada","Dosa","Upma","milk","tea","coffee"};

char lunchmenu[][100]={"Veg Biryani","Special meal","Roti","Dal","Paneer Tikka","Veg mix","Icecream"};

char dinnermenu[][100]={"Fried rice","Spegatti","Burger","Pasta","Noodles","Paratha","Fruit Salad"};

char choice;

do

{

enter:

display();

printf("Enter your choice here : ");

scanf("%c", &choice);

getchar();

switch(choice)

{

case 'A':

case 'a':printf("\nBreakfast\n");

bfast(bfmenu);

break;

case 'B':

case 'b':printf("\nLunch\n");

lunch(lunchmenu);

break;

case 'C':

case 'c':printf("\nDinner\n");

dinner(dinnermenu);

break;

default:printf("\nWrong choice entered Please enter the valid choice!!\n");

goto enter;

}

}while(choice!='d');

}

void display()

{

printf(" Welcome to SRM Restaurant. \n ");

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

printf(" && Please select the meal that you would like to purchase. && \n\n");

printf("\t\t [A] Breakfast\n");

printf("\t\t [B] Lunch\n");

printf("\t\t [C] Dinner\n");

}

void display\_bfmenu()

{

printf(" Welcome to SRM Restaurant. \n ");

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

printf(" $ Breakfast Menu $ \n\n");

printf(" && Please select the food that you would like to purchase. && \n\n");

printf("\t\t [0] Toast - Rs 30.00\n");

printf("\t\t [1] Idli-Vada - Rs 35.00\n");

printf("\t\t [2] Dosa - Rs 40.00\n");

printf("\t\t [3] UPMA Rs 20.00\n");

printf("\t\t [4] Milk- Rs 15.00\n");

printf("\t\t [5] Tea - Rs 20.00\n");

printf("\t\t [6] Coffee - Rs 30.00\n");

}

void bfast(char bfmenu[][100]) //Breakfast Menu Screen

{

int choice = 0; //local variables

int quantity = 0;

int again = 0,amt=0;

int code,i;

display\_bfmenu();

printf("\nEnter the code:: ");

scanf("%d", &code);

getchar();

printf("Total is %d\n\n",total);

if(code>=0&&code<=6)

{

printf("\nEnter the quantity::");

scanf("%d",&quantity);

purchased[code][1]= quantity\*bfrate[code][1]; /\*purchased[code][1]+ (quantity\*bfrate[code][1]);\*/

total+=purchased[code][ 1];

printf("Total is %d\n\n",total);

gst=total\*0.12;

cgst=gst/2;

sgst=cgst;

}

else

{

printf("\nInvalid code entered, Please enter the code again!!!!\n\n");

bfast(bfmenu);

}

repeatbf(bfmenu);

}

void repeatbf(char bfmenu[][100])

{

printf("\nWould you like to buy anything else?\n[1] Yes , [2] No : "); // Allows user to choose whether to check-out or buy anything else.

scanf("%d",&again);

if (again == 1)

bfast(bfmenu);

else if (again == 2 )

{

display\_bf\_bill(bfmenu);

exit(0);

}

else

{

printf("\n\n\t\tSorry Invalid Decision Entered\n");

repeatbf(bfmenu);

}

}

void display\_bf\_bill(char bfmenu[][100])

{

int i;

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

printf(" SRM RESTAURANT \n");

printf(" BILLING INFORMATION \n");

printf("\t\t ITEMS\t\tPrice(in Rs.)\n");

for(i=0;i<7;i++)

{

if(purchased[i][1]!=0)

{

printf("\t\t%s\t\t",bfmenu[i]);

printf("%d\n",purchased[i][1]); /\*purchased[i][1]);\*/

}

}

printf("\t\tGST=Rs.%0.2f\n",gst);

printf("\t\tC-GST=Rs.%0.2f\n",cgst);

printf("\t\tS-GST=Rs.%0.2f\n",sgst);

printf("\t\tTotal=Rs.%d\n",total);

display\_total\_words();

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

}

void display\_lunch\_bill(char lunchmenu[][100])

{

int i;

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

printf(" SRM RESTAURANT \n");

printf(" BILLING INFORMATION \n");

printf("\t\t ITEMS\t\t\tPrice(in Rs.)\n");

for(i=0;i<7;i++)

{

if(purchased[i][1]!=0)

{

printf("\t\t %s \t\t",lunchmenu[i]);

printf("%d\n",purchased[i][1]);

}

}

printf("\t\tGST=Rs.%0.2f\n",gst);

printf("\t\tC-GST=Rs.%0.2f\n",cgst);

printf("\t\tS-GST=Rs.%0.2f\n",sgst);

printf("\t\tTotal=Rs.%d\n",total);

display\_total\_words();

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

}

void display\_dinner\_bill(char dinnermenu[][100])

{

int i;

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

printf(" SRM RESTAURANT \n");

printf(" BILLING INFORMATION \n");

printf("\t\t ITEMS\t\t\tPrice(in Rs.)\n");

for(i=0;i<7;i++)

{

if(purchased[i][1]!=0)

{

printf("\t\t %s \t\t",dinnermenu[i]);

printf("%d\n",purchased[i][1]);

}

}

printf("\t\tGST=Rs.%0.2f\n",gst);

printf("\t\tC-GST=Rs.%0.2f\n",cgst);

printf("\t\tS-GST=Rs.%0.2f\n",sgst);

printf("\t\tTotal=Rs.%d\n\n",total);

display\_total\_words();

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

}

void lunch(char lunchmenu[][100]) // Lunch Screen Menu

{

int choice = 0; //local variables

int quantity = 0;

int again = 0,amt=0;

int code,i;

lunch\_menucard();

printf("\nEnter the code:: ");

scanf("%d", &code);

getchar();

printf("Total is %d\n\n",total);

if(code>=0&&code<=6)

{

printf("\nEnter the quantity::");

scanf("%d",&quantity);

// purchased[code][1]= purchased[code][1]+(quantity\*lunchrate[code][1]);

purchased[code][1]= quantity\*lunchrate[code][1];

total+=purchased[code][ 1];

printf("Total is %d\n\n",total);

gst=total\*0.12;

cgst=gst/2;

sgst=cgst;

}

else

{

printf("\nInvalid code entered, Please enter the code again!!!!\n\n");

lunch(lunchmenu);

}

repeatlunch(lunchmenu);

}

void dinner(char dinnermenu[][100]) // Dinner Menu Screen

{

int choice = 0; //local variables

int quantity = 0;

int again = 0,amt=0;

int code,i;

dinner\_menu();

printf("\nEnter the code:: ");

scanf("%d", &code);

getchar();

printf("Total is %d\n\n",total);

if(code>=0&&code<=6)

{

printf("\nEnter the quantity::");

scanf("%d",&quantity);

// purchased[code][1]= purchased[code][1]+(quantity\*dinner\_rate[code][1]);

purchased[code][1]= quantity\*dinner\_rate[code][1];

total+=purchased[code][1];

printf("Total is %d\n\n",total);

gst=total\*0.12;

cgst=gst/2;

sgst=cgst;

}

else

{

printf("\nInvalid code entered, Please enter the code again!!!!\n\n");

dinner(dinnermenu);

}

repeatdinner(dinnermenu);

}

void lunch\_menucard()

{

printf(" Welcome to SRM Restaurant. \n ");

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

printf(" $ Lunch Menu $ \n\n");

printf(" && Please select the food that you would like to purchase. && \n\n");

printf("\t\t [0] Veg Biryani - Rs 80.00\n");

printf("\t\t [1] Special Meal- Rs 120.00\n");

printf("\t\t [2] Roti - Rs 20.00\n");

printf("\t\t [3] Dal tadka - Rs 120.00\n");

printf("\t\t [4] Paneer Tikka - Rs 150.00\n");

printf("\t\t [5] Veg Mix - Rs 160.00\n");

printf("\t\t [6] Ice cream - Rs 30.00\n");

printf("Enter your choice here : ");

}

void dinner\_menu()

{

printf(" Welcome to SRM Restaurant. \n ");

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

printf(" $ Dinner Menu $ \n\n");

printf(" && Please select the food that you would like to purchase. && \n\n");

printf("\t\t [0] Fried Rice - Rs 65.00\n");

printf("\t\t [1] Spagetti- Rs50\n");

printf("\t\t [2] Burger - Rs 70.00\n");

printf("\t\t [3] Pasta - Rs 80.00\n");

printf("\t\t [4] Noodles - Rs 65.00\n");

printf("\t\t [5] Paratha - Rs 110.00\n");

printf("\t\t [6] Fruit Salad - Rs 50.00\n");

}

void repeatlunch(char lunchmenu[][100])

{

printf("\nWould you like to buy anything else?\n[1] Yes , [2] No : "); // Allows user to choose whether to check-out or buy anything else.

scanf("%d",&again);

if (again == 1)

lunch(lunchmenu);

else if (again == 2 )

{

display\_lunch\_bill(lunchmenu);

exit(0);

}

else

{

printf("\n\n\t\tSorry Invalid Decision Entered\n");

repeatlunch(lunchmenu);

}

}

void repeatdinner(char dinnermenu[][100])

{

printf("\nWould you like to buy anything else?\n[1] Yes , [2] No : "); // Allows user to choose whether to check-out or buy anything else.

scanf("%d",&again);

if (again == 1)

{

dinner(dinnermenu);

}

else if (again == 2 )

{

display\_dinner\_bill(dinnermenu);

exit(0);

}

else

{

printf("\n\n\t\tSorry Invalid Decision Entered\n");

repeatdinner(dinnermenu);

}

}

void display\_total\_words()

{

int num=0,digits=0,temp=0;

while(total != 0)

{

num=(num \* 10)+(total % 10);

total/= 10;

digits++;

}

printf("\nNo of digits::%d\n",digits);

while(num!= 0)

{

temp++;

switch(num%10)

{

case 0:

printf("Zero ");

break;

case 1:

printf("One ");

break;

case 2:

printf("Two ");

break;

case 3:

printf("Three ");

break;

case 4:

printf("Four ");

break;

case 5:

printf("Five ");

break;

case 6:

printf("Six ");

break;

case 7:

printf("Seven ");

break;

case 8:

printf("Eight ");

break;

case 9:

printf("Nine ");

break;

}

num = num / 10;

}

if(num==0&&digits!=temp)

printf(" Zero ");

return;

}