***Hotel Billing System***

//C program for hotel billing system.

#include<stdio.h>

#include<string.h>

#include<stdlib.h>

double price[7] = {15.80 , 10.50 , 19.00 , 14.00 , 12.00 , 22.00 , 16.00 };

double mealTaxPrices[7];

int adultNumber,childNumber;

void printMeals();

void orderMeals();

double orderForAdult();

double orderForChildren();

int main()

{

char response = 'y';

printMeals();

while(response == 'y'|| response == 'Y')

{

printf("please enter number of adults :");

scanf("%d",&adultNumber);

printf("please enter number of children:");

scanf("%d",&childNumber);

orderMeals();

printf("\nwould you like to continue(y/n):");

scanf("\n%c",&response);

}

printf("\n \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* THANK YOU FOR COMING \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("\20\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PLEASE VISIT US NEXT TIME \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\20 \n");

system("pause");

return 0;

}

void printMeals()

{

printf("\20\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* WELCOME TO SRM RESTURANT \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\20\n");

printf(" \t\t\t Below is the menue:\20\n");

printf(" \t\t\t MEALS\t\t\tPRICE:\n");

printf(" \t\t\t \22\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\22\n");

printf(" \t\t\t 1- Fish and Chips\tR15.80\n");

printf(" \t\t\t 2- Spaghetti\t\tR10.50\n");

printf(" \t\t\t 3- T-Bone Steak\tR19.00\n");

printf(" \t\t\t 4- Chicken Chop\tR14.00\n");

printf(" \t\t\t 5- Chicken Maryland\tR12.00\n");

printf(" \t\t\t 6- Red Lobster\t\tR22.00\n");

printf(" \t\t\t 7- Seafood Platter\tR16.00\n");

printf("\n");

}

void orderMeals()

{

double totalPriceForAdult, totalPriceForChildren;

double allPayment,discount;

printf(" \t\t\*\*\*\* ORDER MENUE\*\*\*\*\n");

totalPriceForAdult = orderForAdult();

totalPriceForChildren = orderForChildren();

allPayment = totalPriceForAdult + totalPriceForChildren ;

printf("\n \t\t \22\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\22 \n");

printf(" \t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* final BILL \*\*\*\*\*\*\*\*\*\*\*\* \n");

printf(" \t\t\tadult/child\tcount\t\ttotal price\n");

printf(" \t\t\tadults\t\t%d\t\t%5.2f\n",adultNumber,totalPriceForAdult);

printf(" \t\t\tchildren\t%d\t\t%5.2f\n",childNumber,totalPriceForChildren);

printf(" \t\t\tTotal bill\t\t\t%5.2f\n",allPayment );

if(allPayment < 10)

discount=((allPayment \* 0.5)/100);

else if(allPayment>= 10 && allPayment<20)

discount=((allPayment \* 1)/100);

else if(allPayment>= 20 && allPayment<30)

discount=((allPayment \* 1.5)/100);

else if(allPayment>= 30 && allPayment<40)

discount=((allPayment \* 2.0)/100);

else

discount= ((allPayment \* 5.0)/100);

printf(" \t\t\tTotal bill after discount\t%5.2f\n",allPayment-discount);

}

double orderForAdult()

{

int menuOption,i,amount;

char response = 'y';

double totalPerPerson = 0.0,totalAllPerson = 0.0;

double tax = 5.0;

if(adultNumber <=0)

printf("\n ");

else

printf("\*\tadults:\n");

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

{

printf("adult %d please enter your orders\n",i+1);

while(response == 'y' || response == 'Y')

{

printf("please enter your option:");

scanf("%d",&menuOption);

if(menuOption<1 || menuOption>7)

{

printf("sorry we don`t have this order \nagain! ");

continue;

}

printf("please enter your amount of order:");

scanf("%d",&amount);

totalPerPerson = totalPerPerson + (amount \* price[menuOption - 1] );

printf("\nWould you like to enter more orders(y/n):");

scanf("\n%c",&response);

}

printf("\n");

totalAllPerson += totalAllPerson + totalPerPerson;

totalPerPerson = 0.0;

response = 'y';

}

return totalAllPerson + ((totalAllPerson \* tax) / 100);

}

double orderForChildren()

{

int menuOption,i,amount;

char response = 'y';

double totalPerChild = 0.0,totalAllChildren = 0.0;

double tax = 5.0,oneOrder;

if(childNumber <=0)

printf("\n");

else

printf("\*\tChildren:\n");

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

{

printf("child %d please enter your orders\n",i+1);

while(response == 'y' || response == 'Y')

{

printf("please enter your option:");

scanf("%d",&menuOption);

if(menuOption<1 || menuOption>7)

{

printf("sorry we don`t have this order \nagain! ");

continue;

}

printf("please enter your amount of order:");

scanf("%d",&amount);

oneOrder = (price[menuOption - 1] \* 60)/100 ;//this one order for a child with discount %60 of one order of adult

totalPerChild = totalPerChild + (amount \* oneOrder) ;

printf("Would you like to enter more orders(y/n):");

scanf("\n%c",&response);

}

totalAllChildren += totalAllChildren + totalPerChild;

response = 'y';

totalPerChild = 0.0;

printf("\n");

}

return totalAllChildren + ((totalAllChildren \* tax) / 100);

}

