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ROLLNO FA14-BSSE-007

SECTION BATCH#3 A

ASSIGNMENT DATASTRUCTURE

SUBMITTED TO SIR ASIF SURYANI

COMSATS INSTITIUTE OF INFORMATION TECHNOLOGY SAHIWAL.

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#include<iostream>

using namespace std;

#include<windows.h> //using sleep function

#include<conio.h>

/////////////////////LINKED LIST//////////////////

struct node //NAME OF STRUCTRUE

{

int data; //data part

node \*next; //next part

node \*prev; //pre part

};

///////////////////// CLASS//////////////////

class food\_chainq

{

public: //DATA MEMBER

node \*start, \*temp1, \*temp2, \*temp3;

public : //MEMBER FUNCTION

food\_chainq() //constructure

{

start = NULL;

}

/////////////////////ADD FUNCTION//////////////////

void add (int value)

{

node \*s, \*temp;

temp = new node;

temp->data = value;

temp->next = NULL;

if (start == NULL)

{

cout<<"\nTHE FIRST ORDER IN QUEUE AND TAKES 15 MINUTES\n";

temp->prev = NULL;

start = temp;

}

else

{

s = start;

while (s->next != NULL)

s = s->next;

s->next = temp;

temp->prev = s;

cout<<"\nTHE 2nd ORDER IN QUEUE AND TAKES 15 MINUTES\n";

}

}

/////////////////////SEARCH FUNCTION//////////////////

void search() //searching the elements that found first in this link list.

{

int p;

cout<<"enter no to search"<<endl;

cin>>p;

temp1=start;

while(temp1->next!=NULL)

{

if(temp1->data==p)

{

cout<<temp1->data<<" is stored in "<< temp1->next<<endl;

}

temp1=temp1->next;

}

}

/////////////////////ORDER FUNCTION//////////////////

void order()

{

int f=1;

static float count=0;

static float total=0;

count++;

total+=f;

if(f==1)

{

cout<<"NO ORDER IS IN QUEUE ";

cout<<"GIVE US ORDER BY PRESSING o";

}

}

};//END OF CLASS

//////////////////MAIN FUNCTION BODY///////////////////////////

void main()

{

#define pc 5

#define md 4.5

#define hb 7

#define fta 10

#define rp 3.5

int pp;

int mp;

int hp;

int fp;

int rrp;

char c;

back:

back1:

system("color f0"); //COLOR CODE

system("cls"); //CLEAR SCREEN

food\_chainq cfq; //obejct of class

cout<<"\a\n\n\t\t WELCOME IN CHAIN FOOD PAKISTAN.\n ";

cout<<"OUR AIM TO PROTECTING CUSTOMER HEALTH BY PPROVOIDING ROUBUST FOOD";

cout<<"\n\n\t\t Date:18-11-2015"<<endl;

cout<<"\n\n\nSELECT BY PRESSING DESIRE OPTION\n";

cout<<"\n\tBY PREEING m MENU \n";

cout<<"\n\tBY PREEING o ORDER \n";

cout<<"\n\tBY PREEING a AVAILABLE BOY\n";

cout<<"\n\tBY PREEING s STATUS OF THE BOY SEARCH\n";

cout<<"\n\tBY PREEING f ORDER STATUS\n";

cout<<"\n\tBY PREEING e EXIT \n";

cin>>c;

while(1)

{

switch(c) ///switch satements

{

case 'f':

cfq.order();

break;

case 's':

cfq.search();

case 'a':

cout<<"\nALL 4 BOYS ARE AVAILABLE\n";

cfq.add(1);

cout<<"\nORDER ASSINGN TO FIRST BOY ";

break;

case 'm':

system("cls");

cout<<"\nWE PROVIDE 5 FOODS ITEMS\n\n";

cout<<"1.Potato chips\n"

<<"price $5\n\n"

<<"2.Masala dosa\n"

<<"price $4.5\n\n"

<<"3.Hamburger\n"

<<"price $7\n\n"

<<"4.Fajitas\n"

<<"price $10\n\n"

<<"5.Roti prata\n"

<<"price $3.5\n\n";

cout<<"\n\n";

cout<<"FOR ORDER PRESS o";

break;

case 'e':

exit(0);

break;

case 'o':

system("cls");

int order;

cout<<"\n\nSELECT FOOD ITEM CAREFULLY\n";

cout<<"1.Potato chips\n"

<<"price $5\n\n"

<<"2.Masala dosa\n"

<<"price $4.5\n\n"

<<"3.Hamburger\n"

<<"price $7\n\n"

<<"4.Fajitas\n"

<<"price $10\n\n"

<<"5.Roti prata\n"

<<"price $3.5\n\n";

cout<<"TO GO BACK MAIN MENU PRESS m";

cout<<"TO GIVE US ORDER PRESS o";

cin>>c;

switch(c)

{

case 'm':

goto back;

break;

case 'o':

cout<<"ENTER ORDER\n";

cout<<"1\tPotato chips\n"

<<"2\tMasala dosa\n"

<<"3\tHamburger \n"

<<"4\tFajitas \n"

<<"5\tRoti prata \n";

cin>>order;

switch(order)

{

case 1:

{

cout<<"No of Potato chips : ";

cin>>pp;

break;

}

case 2:

{

cout<<"No of Masala dosa : ";

cin>>mp;

break;

}

case 3:

{

cout<<"No of Hamburger: ";

cin>>hp;

break;

}

case 4:

{

cout<<"No of Fajitas : ";

cin>>fp;

break;

}

case 5:

{

cout<<"No of Roti prata : ";

cin>>rrp;

break;

}

}

cout<<"\n\t\t\tNo"<<"\tItems"<<"\t\t$Total"<<endl;

if(order==1)

cout<<"\t\t\t"<<pp<<"\tPotato chips"<<"\t"<<"$"<<pc\*pp<<endl;

else if(order==2)

cout<<"\t\t\t"<<mp<<"\tMasala dosa "<<"\t"<<"$"<<md\*mp<<endl;

else if(order==3)

cout<<"\t\t\t"<<hp<<"\tHamburger "<<"\t"<<"$"<<hp\*hp<<endl;

else if(order==4)

cout<<"\t\t\t"<<fp<<"\tFajitas"<<"\t"<<"$"<<fta\*fp<<endl;

else if(order==5)

cout<<"\t\t\t"<<rrp<<"\tRoti prata "<<"\t"<<"$"<<rp\*rrp<<endl;

else if(order>5)

{

cout<<"YOU ENTER A WRONG NUMBER"<<endl;

break;

}

else

cout<<"\t\tThank you";

if(order==order)

{

cout<<"\n\nTHIS IS YOUR $TOTLE BILL\n";

int f=1;

static float count=0;

static float total=0;

count++;

total+=f;

cout<< "\nTOTALE NUMBER OF ORDER ="<<total;

cfq.add(1);

cout<<"\n\n\n";

cout<<"\t\t\nThank you for chosing us"

<<"\t\t\t\t\*\*\nSuperior copy right\*\*"<<endl;

cout<<"\n\nTO GO TO MAIN MENU PRESS m";

}

break;

default:

cout<<"you enter wrong number";

goto back;

}

break;

default:

cout<<"\nYOU ENTER WRONG OPTION\nRENTER YOUR OPTION(y/n)";

}

cin>>c;

if(c=='y')

goto back;

}

getchar();

getchar();

//system("pause");

} //END OF PROGRAM

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