

**Assignment no:2**

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Subject: software construction

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**Code for online Bus ticket system**

#include<iostream>

using namespace std;

int r=0,p=0,k=20;

float allsell=0;

class bus{

char arriva[9],deprt[9],from[9],to[9],pname[99];

int busn,dtym,tseat,fair,s;

public:

void install();

void show();

void book();

void exit();

}b[8];

void bus::install(void)

{

cout.setf(ios::right,ios::adjustfield);

cout.width(15);

cout<<"Enter Bus No:";

cin>>busn;

cout.setf(ios::right,ios::adjustfield);

cout.width(15);

cout<<"\nFrom: ";

cin>>from;

cout.setf(ios::right,ios::adjustfield);

cout.width(15);

cout<<"\nTo: ";

cin>>to;

cout.setf(ios::right,ios::adjustfield);

cout.width(15);

cout<<"\nDeparture: ";

cin>>dtym;

cout.setf(ios::right,ios::adjustfield);

cout.width(15);

cout<<"\nTotal seats: ";

cin>>tseat;

p++;

cout<<"\n";

cout<<"Bus Information Added!!\n";

system("PAUSE");

}

void bus::show(void)

{

cout<<"total bus available:"<<endl;

for(int i=0;i<p;i++)

{ cout.setf(ios::right,ios::adjustfield);

cout.width(15);

cout<<"Bus No: ";

cout<<b[i].busn<<endl;

cout.setf(ios::right,ios::adjustfield);

cout.width(15);

cout<<"From: ";

cout<<b[i].from<<endl;

cout.setf(ios::right,ios::adjustfield);

cout.width(15);

cout<<"To: ";

cout<<b[i].to<<endl;

cout.setf(ios::right,ios::adjustfield);

cout.width(15);

cout<<"Departure: ";

cout<<b[i].dtym<<" O'clock"<<endl;

cout.setf(ios::right,ios::adjustfield);

cout.width(15);

cout<<"Seats: ";

cout<<b[i].tseat<<endl<<endl<<endl;

}

system("PAUSE");

}

void bus::book(void)

{

int number;

float fair;

cout<<"Enter Bus No: ";

cin>>number;

int n;

for(n=0;n<p;n++)

{

if(b[n].busn==number)

{

if(b[n].tseat<=0)

{

cout<<"\tSORRY!"<<endl<<"\tNo Seat Available\t";

}

else

{

cout<<endl<<"Total seat available: "<<b[n].tseat;

cout<<endl<<"Enter Passenger's Name: ";

cin>>pname;

cout<<endl<<"Number of seats: ";

cin>>s;

while((b[n].tseat=b[n].tseat-s)<0)

{cout<<endl<<"Limit Exceed...Please re-enter ";

b[n].tseat=b[n].tseat+s;

cin>>s;

}

cout<<endl<<"Your purchase is completed"<<endl;

cout.setf(ios::right,ios::adjustfield);

cout.width(30);

cout<<"Bus No: ";

cout<<b[n].busn<<endl;

cout.setf(ios::right,ios::adjustfield);

cout.width(30);

cout<<"From: ";

cout<<b[n].from<<" to "<<b[n].to<<endl;

cout.setf(ios::right,ios::adjustfield);

cout.width(30);

cout<<"Departure: ";

cout<<b[n].dtym<<" O'clock"<<endl;

cout.setf(ios::right,ios::adjustfield);

cout.width(30);

cout<<"Total seat: ";

cout<<s<<endl;

fair=300\*s;

fair=fair+(fair\*.7);

allsell=allsell+fair;

cout.setf(ios::right,ios::adjustfield);

cout.width(30);

cout<<"Total Fair(with 7%vat): ";

cout.setf(ios::showpoint);

cout.precision(3);

cout.setf(ios::fixed,ios::floatfield);

cout.width(8);

cout<<fair<<endl;

cout.setf(ios::right,ios::adjustfield);

cout.width(30);

cout<<"Thank You"<<endl<<endl;

}

}

}

system("PAUSE");

system("CLS");

}

int main()

{

int w,g=1;

while(g){

cout<<"\n\n\t\t\t\t==================================================="<<endl;

cout<<"\t\t\t\t\t\tBus Ticketing System\n";

cout<<"\t\t\t\t==================================================="<<endl;

cout<<"\t\t\t\t\t 1 => Install\n\t\t\t\t\t 2 => List Available Bus\n\t\t\t\t\t 3 => Book Tickets\n\t\t\t\t\t 4 => Exit";

cout<<"\n\n\t\t\t\t\t Enter your choice: ";

cin>>w;

switch(w){

case 1:

b[p].install();//fn1353p

break;

case 2:

b[0].show();

break;

case 3:

b[p].book();

break;

case 4:

{

g=0;

cout<<endl<<"Total Sales:"<<allsell<<endl<<"\*\*\*\*\*\*Thank You\*\*\*\*\*\*"<<endl;

break;

}

}

}

return 0;

}



