**PROJECT NAME : AMBULANCE MANAGEMENT SYSTEM**

#include <iostream>

#include<string.h>

#include<iomanip>

using namespace std;

class ambulance

{

public:

virtual void details(){};

void data()

{

cout<<"----------------WELCOME TO HEALTH AMBULANCE MANAGEMENT SYSTEM---------------------\n";

cout<<"AMBULANCE TYPE"<<setw(43)<<"NO OF AMBULANCE AVAILABLE\n";

cout<<"Basic ambulance"<<setw(26)<<"20\n";

cout<<"Emergency ambulance"<<setw(22)<<"25\n";

cout<<"Neonatal/Maternal ambulance"<<setw(13)<<"30"<<endl;

cout<<"Organ Transplantation ambulance"<<setw(10)<<"12\n";

cout<<"Mortuary ambulance"<<setw(22)<<"6";

}

};

class basic:public ambulance

{

int bno=20;

public:

void details()

{

cout<<"Charge = ₹20 per km";

bno--;

cout<<"\nAmbulance Availabity Status="<<bno<<endl;

}

};

class emergency:public ambulance

{

int eno=25;

public:

void details()

{

cout<<"Charge = ₹35 per km";

eno--;

cout<<"\nAmbulance Availabity Status="<<eno<<endl;

}

};

class maternal:public ambulance

{

int mno=30;

public:

void details()

{

cout<<"Charge = ₹15 per km";

mno--;

cout<<"\nAmbulance Availabity Status="<<mno<<endl;

}

};

class organ:public ambulance

{

int ono=12;

public:

void details()

{

cout<<"Charge = ₹18 per km";

ono--;

cout<<"\nAmbulance Availabity Status="<<ono<<endl;

}

};

class mortuary:public ambulance

{

int no=6;

public:

void details()

{

cout<<"Charge = ₹10 per km";

no--;

cout<<"\nAmbulance Availabity Status="<<no<<endl;

}

};

class driver

{

protected:

string dname="XXXX";

long int pno=9685712300;

string vno="TN4444";

public:

void setdata()

{

cout<<"\n$$$$$ DRIVER DETAILS $$$$$\n";

cout<<"Name:"<<dname<<endl;

cout<<"Phone No:"<<pno<<endl;

cout<<"Vehicle No:"<<vno<<endl;

}

};

class user:public driver,public basic,public emergency,public maternal,public organ,public mortuary

{

char uname[35];

string pic\_loc,hosp\_name,hosp\_loc;

int num;

public:

void get()

{

string str="Enter a vaild number!";

cout<<"\nEnter user name:";

cin>>uname;

cout<<"Enter Hospital Name that you want to go:";

cin>>hosp\_name;

cout<<"Enter Location of the hospital:";

getline(cin>>hosp\_loc,hosp\_loc);

cout<<"Enter Pickup Location:";

getline(cin>>pic\_loc,pic\_loc);

cout<<" Reason for booking the ambulance---[Enter(number) of anyone of the below:]\n(1.Accident/2.Neonatal/3.Delivery/4.Organ Transplantation/5.Death Case/6.Others): ";

cin>>num;

try

{

if(num<0 || num>6)

throw str;

}

catch(string s)

{

cout<<s;

}

}

void booking()

{

switch(num)

{

case 1:

{

cout<<"\nEmergency Ambulance is booked!\n";

emergency::details();

setdata();

}

break;

case 2:

{

cout<<"\nNeonatal/Maternal ambulance is booked!\n";

maternal::details();

setdata();

}

break;

case 3:

{

cout<<"\nNeonatal/Maternal ambulance is booked!\n";

maternal::details();

setdata();

}

break;

case 4:

{

cout<<"\nOrgan Transplantation ambulance is booked!\n";

organ::details();

setdata();

}

break;

case 5:

{

cout<<"\nMortuary ambulance is booked!\n";

mortuary::details();

setdata();

}

break;

case 6:

{

cout<<"\nBasic Ambulance is booked!!!\n";

basic::details();

setdata();

}

break;

}

}

};

class patient:public user

{

protected:

char pname[30];

int age;

char gender[2];

string casuality;

public:

void input()

{

cout<<"\nPATIENT DETAILS\n";

cout<<"Enter Patient Name:";

cin>>pname;

cout<<"Enter Age/Months:";

cin>>age;

cout<<"Enter the gender(M/F):";

cin>>gender;

cout<<"Enter patient's issue:";

cin>>casuality;

}

};

int main()

{

ambulance \*a;

a->data();

int n;

cout<<"\n\nEnter the no. of user:";

cin>>n;

user u;

patient p;

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

{

cout<<"\n\nENTER DETAILS OF USER - "<<i+1<<":";

u.get();

p.input();

u.booking();

}

}