*// Hamza Hamruni*

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*// PG\_5*

*#include<iostream>*

*#include<fstream>*

*#include<string>*

*#include <iomanip>*

*#include <iomanip>*

*using namespace std;*

*class Time*

*{*

*int hours;*

*int minutes;*

*public:*

*Time(int h=0,int m=0):hours(h),minutes(m){}*

*void SetTime(int h,int m){hours=h;minutes=m;}*

*Time operator+(const Time t)*

*{*

*Time A;*

*A.hours=hours+t.hours+((minutes+t.minutes)/60);*

*A.minutes=(minutes+t.minutes)%60;*

*return A;*

*}*

*Time operator-(const Time t)*

*{*

*Time A;*

*A.hours=hours-t.hours;*

*A.minutes=minutes-t.minutes;*

*while(A.minutes<0)*

*{*

*A.hours=A.hours-1;*

*A.minutes=A.minutes+60;*

*}*

*return A;*

*}*

*Time operator\*(double D)*

*{*

*Time A;*

*A.hours=hours\*D;*

*A.minutes=minutes\*D;*

*while(A.minutes<0)*

*{*

*A.hours=A.hours-1;*

*A.minutes=A.minutes+60;*

*}*

*return A;*

*}*

*void show()*

*{*

*cout<<hours<<":"<<minutes<<" H/M"<<setw(14)<<right<<"\t\t";*

*}*

*};*

*//-------------------------------------------------------------------------------------------------------------------------------------*

*int main()*

*{*

*cout<<"\t\t\t\tHamza Hamruni\n\t\t\t\t 213010793\n\t\t\t\t PG\_5"*

*<<"\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n";*

*Time Departure\_time,Flight\_time,Access\_time;*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*Departure\_time.SetTime(2,30);Flight\_time.SetTime(1,40);*

*Access\_time=Departure\_time+Flight\_time;*

*cout<<"\nDeparture Time\t\t\tFlight Time\t\t\tAccess Time\n\n";*

*Departure\_time.show();*

*Flight\_time.show();*

*Access\_time.show();*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*Departure\_time.SetTime(4,0);Flight\_time.SetTime(2,15);*

*Access\_time=Departure\_time+Flight\_time;*

*cout<<endl;*

*Departure\_time.show();*

*Flight\_time.show();*

*Access\_time.show();*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*Departure\_time.SetTime(12,45);Flight\_time.SetTime(0,50);*

*Access\_time=Departure\_time+Flight\_time;*

*cout<<endl;*

*Departure\_time.show();*

*Flight\_time.show();*

*Access\_time.show();*

*//\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*Departure\_time.SetTime(3,30);Access\_time.SetTime(5,10);*

*Flight\_time=Access\_time-Departure\_time;*

*cout<<"\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n";*

*cout<<"\nDeparture Time\t\t\tAccess Time\t\t\t\Flight Time\n\n";*

*Departure\_time.show();*

*Access\_time.show();*

*Flight\_time.show();*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*Departure\_time.SetTime(4,0);Access\_time.SetTime(4,50);*

*Flight\_time=Access\_time-Departure\_time;*

*cout<<endl;*

*Departure\_time.show();*

*Access\_time.show()*

*Flight\_time.show();*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*Departure\_time.SetTime(12,15);Access\_time.SetTime(13,40);*

*Flight\_time=Access\_time-Departure\_time;*

*cout<<endl;*

*Departure\_time.show();*

*Access\_time.show();*

*Flight\_time.show();*

*cout<<endl;*

*}*