#include<iostream>

**using** **namespace** std;

**class** Time

{

**public**:

**int** hr;

**int** mint;

**int** sec;

**void** read();

**void** display();

**void** diff(Time obj1,Time obj2);

};

**void** Time::read()

{

cout<<"enter values"<<endl;

cin>>hr;

cin>>mint;

cin>>sec;

}

**void** Time::display()

{

cout<<"time: "<<hr<<":"<<mint<<":"<<sec<<endl;

}

Time add(Time obj1,Time obj2)

{

Time ans;

**int** c=0;

ans.sec=(obj1.sec+obj2.sec+c)%60;

c=(obj1.sec+obj2.sec+c)/60;

ans.mint=(obj1.mint+obj2.mint+c)%60;

c=(obj1.mint+obj2.mint+c)/60;

ans.hr=obj1.hr+obj2.hr+c;

**return** ans;

}

Time diff(Time obj1,Time obj2)

{

Time ans;

**int** n1=3600\*obj1.hr+60\*obj1.mint+obj1.sec;

**int** n2=3600\*obj2.hr+60\*obj2.mint+obj2.sec;

**int** k=n1-n2>0?n1-n2:n2-n1;

ans.hr=k/3600;

k=k-ans.hr\*3600;

ans.mint=k/60;

k=k-60\*ans.mint;

ans.sec=k;

**return** ans;

}

**int** main()

{

Time obj1,obj2;

obj1.read();

obj2.read();

obj1.display();

obj2.display();

cout<<"Time after addition"<< endl;

Time ansAdd=add(obj1,obj2);

ansAdd.display();

cout<< "Time after subtraction" <<endl;

Time ansDiff=diff(obj1,obj2);

ansDiff.display();

}