

Practical: 9 Create a class called 'TIME' that has

- three integer data members for hours, minutes and seconds
- constructor to initialize the object to zero
- constructor to initialize the object to some constant value
- member function to add two TIME objects
- member function to display time in HH:MM:SS format

Write a main function to create two TIME objects, add them and display the result in HH:MM:SS format.

```
#include<iostream>

using namespace std;

class TIME
{
    int hh,mm,ss;

    public:

        TIME();

        TIME(int h,int m,int s);

        void atime(TIME t1, TIME t2);

        void display();

};

TIME :: TIME()
{
    hh=0;

    mm=0;

    ss=0;

}

TIME :: TIME(int h,int m,int s)
{
    hh=h;
```

```
        mm=m;

        ss=s;
    }

void TIME :: atime(TIME t1, TIME t2)
{
    int h,m,s;

    hh=t1.hh+t2.hh;

    mm=t1.mm+t2.mm;

    ss=t1.ss+t2.ss;

    mm+=ss/60;

    ss=ss%60;

    hh+=mm/60;

    mm=mm%60;
}

void TIME :: display()
{
    cout<<"Time = "<<hh<<":"<<mm<<":"<<ss; }

int main()
{
    TIME t1,t2(17,50,59);

    cout<<"\n Time 1 : ";

    t1.display();

    cout<<"\n Time 2 : ";

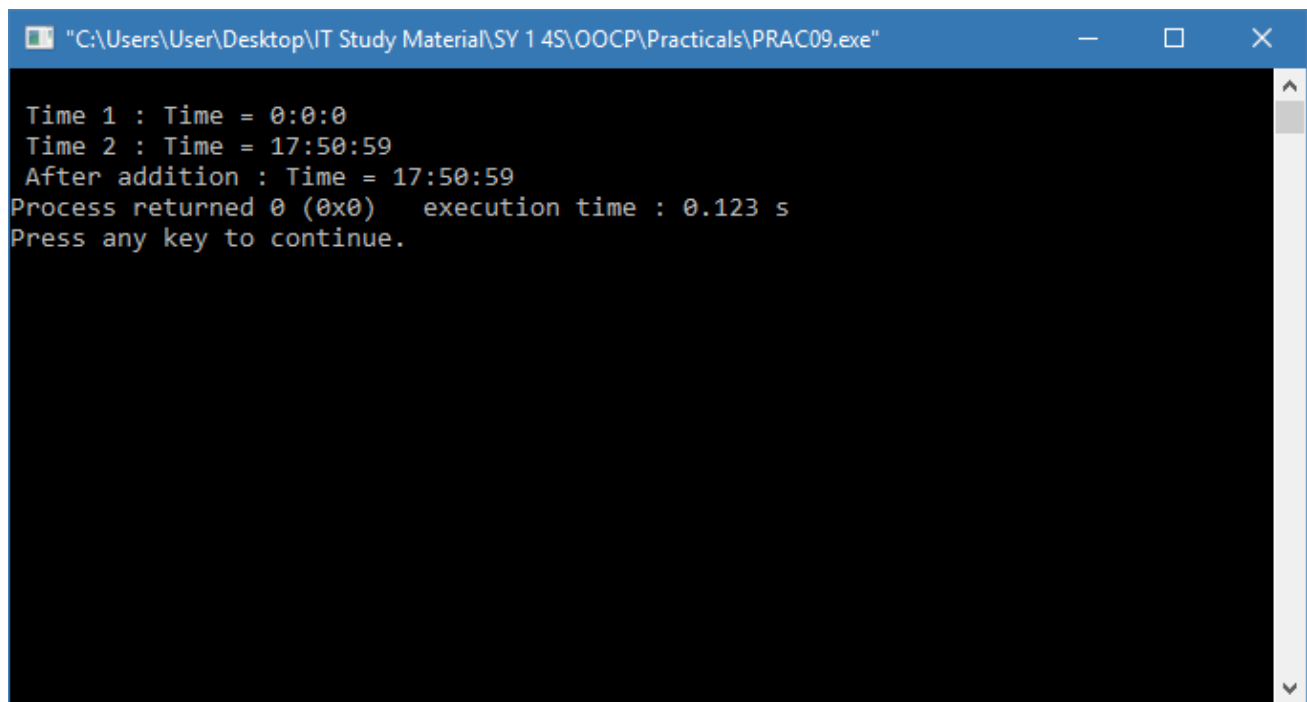
    t2.display();

    t2.atime(t1,t2);

    cout<<"\n After addition : ";

    t2.display();
}
```

Output: 9



```
"C:\Users\User\Desktop\IT Study Material\SY 1 45\OOCp\Practicals\PRAC09.exe"

Time 1 : Time = 0:0:0
Time 2 : Time = 17:50:59
After addition : Time = 17:50:59
Process returned 0 (0x0) execution time : 0.123 s
Press any key to continue.
```