

Program - 7: Create a Time class to store time in hours and minutes. Write a friend function to add Time objects

```
#include <iostream>
```

```
using namespace std;
```

```
class Time{
```

```
    private:
```

```
        int hh;
```

```
        int mm;
```

```
        int ss;
```

```
    public:
```

```
        //parameterized constructor, with default argument to initialize time
```

```
        //or make a function to read time
```

```
        Time(int h =0,int m = 0, int s = 0){
```

```
            hh = h;
```

```
            mm = m;
```

```
            ss = s;
```

```
        }
```

```
        //function to add and return time object
```

```
        Time add(Time t1){
```

```
            Time temp;
```

```
            temp.ss = ss + t1.ss;
```

```
            temp.mm = mm + t1.mm;
```

```
            temp.hh = hh + t1.hh;
```

```
        //implement mechanism to convert time in proper format
```

```
        if(temp.ss >= 60){
```

```

        temp.mm += temp.ss / 60;

        temp.ss = temp.ss % 60;
    }

    if(temp.mm >= 60){

        temp.hh += temp.mm / 60;

        temp.mm = temp.mm % 60;
    }

    return temp;
}

void display(){

    cout<<"HH:MM:SS = "<<hh<<":"<<mm<<":"<<ss<<endl;

}

};

```

```

int main(){

    Time t1(4,35,55), t2(5, 10, 15), t3;

    cout<<"Two times are:"<<endl;

    t1.display();

    t2.display();

    t3 = t1.add(t2);

    cout<<"SUM is:"<<endl;

    t3.display();

    return 0;

}

```

