

```

1  #include <iostream>
2  using namespace std;
3
4  // Class representing time
5  class Time
6  {
7  private:
8      int hours, minutes, seconds;
9
10 public:
11     // Constructor with default values
12     Time(int h = 0, int m = 0, int s = 0) : hours(h), minutes(m), seconds(s) {}
13
14     // Overloaded + operator to add two Time objects
15     Time operator+(const Time &t) const
16     {
17         int h = hours + t.hours;
18         int m = minutes + t.minutes;
19         int s = seconds + t.seconds;
20
21         // Adjust seconds, minutes, and hours if necessary
22         if (s >= 60)
23         {
24             m += s / 60;
25             s %= 60;
26         }
27         if (m >= 60)
28         {
29             h += m / 60;
30             m %= 60;
31         }
32         if (h >= 24)
33         {
34             h %= 24;
35         }
36
37         // Create and return a new Time object
38         return Time(h, m, s);
39     }
40
41     // Overloaded prefix ++ operator to increment time by 1 second
42     Time &operator++()
43     {
44         ++seconds;
45         if (seconds == 60)
46         {
47             seconds = 0;
48             ++minutes;
49             if (minutes == 60)
50             {
51                 minutes = 0;
52                 ++hours;
53                 hours %= 24; // Reset hours if it reaches 24
54             }
55         }
56         return *this;
57     }
58
59     // Function to print the time
60     void printTime() const
61     {
62         std::cout << hours << ":" << minutes << ":" << seconds << std::endl;
63     }
64 };
65
66 int main()

```

```
67 {
68     // Creating Time objects
69     Time t1(13, 35, 45);
70     Time t2(12, 21, 10);
71
72     // Adding two Time objects
73     Time t3 = t1 + t2;
74
75     // Printing Time objects
76     cout << "Time 1                : ";
77     t1.printTime();
78     cout << "Time 2                : ";
79     t2.printTime();
80     cout << "Time 1 + Time 2 = Time 3 : ";
81     t3.printTime();
82
83     // Incrementing t3 by 1 second and printing the result
84     ++t3;
85     cout << "Time 3 after 1 sec increment : ";
86     t3.printTime();
87
88     return 0;
89 }
```