Assignment

Code-

```cpp
/*
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Program to add two Time Objects
*/

#include <iostream>
using namespace std;

class Time{
    private:
        int seconds=0, minutes=0, hours=0;

    public:
        Time(int hrs, int min, int sec) {
            seconds = sec;
            minutes = min;
            hours = hrs;
    }

// Getter Functions
        int getSeconds(){
            return seconds;
        }
        int getMinutes(){
            return minutes;
        }
        int getHours(){
            return hours;
        }
```

```cpp
// Add Time Function
Time addTime(Time t2) {
    int sec = seconds + t2.getSeconds();
    int Mcarry = 0, Hcarry = 0;
    if (sec > 59) {
        Mcarry = sec / 60;
        sec %= 60;
    }
    int min = minutes + t2.getMinutes() + Mcarry;
    if (min > 59) {
        Hcarry = min / 60;
        min %= 60;
    }
    int hrs = (hours + t2.getHours() + Hcarry) % 24;

    Time t = Time(hrs, min, sec);
    return t;
}


//Display time function
        void PrintTime(){
            string HRS = to_string(hours),MIN = to_string(minutes),SEC = to_string(seconds);     //For Proper Formatting of Time
            if(hours<10){
                HRS = "0" + to_string(hours);
            }
            if(minutes<10){
                MIN = "0" + to_string(minutes);
            }
            if(seconds<10){
                SEC = "0" + to_string(seconds);
            }
            cout << HRS << ":" << MIN << ":" << SEC << endl;
        }
};
```

```
72    int main() {
73        Time a = Time(4,46,11);
74        Time b = Time(6,35,54);
75
76        Time c = a.addTime(b);
77
78        c.PrintTime();
79        return 0;
80    }
```

Output:

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**

 ~/Documents/Academics/C Cpp Lab g++ time.cpp -o time
 ~/Documents/Academics/C Cpp Lab ./time
11:22:05