Class for Time and opertations like read write

```
import java.util.Scanner;
public class Time {
    //data members
    int hour, minute, second;
    //Input function
    public void input()
        Scanner sc=new Scanner(System.in);
        do{
             System.out.print("Enter valid details");
             System.out.print("\nHours:");
             hour=sc.nextInt();
             System.out.print("Minutes:");
             minute=sc.nextInt();
             System.out.print("Seconds:");
             second=sc.nextInt();
         }while (minute>59||second>59); //Repeat the
input process till valid input
    //Function to display time
    public void display()
        System.out.println(hour+"hours
"+minute+"minutes "+second+"second");
    //Function to find greatest time value
    public void great(Time t)
        System.out.println("Greater time value");
        if (hour>t.hour)
    System.out.println(hour+":"+minute+":"+second);
        else
    System.out.println(t.hour+":"+t.minute+":"+t.second
);
    }
```

```
//function to find difference between two time
values
    public void difference(Time t)
         int diff hour, diff minute, diff second;
         //subtract small time value from great
         if (hour>t.hour)
             diff hour=hour-t.hour;
             diff minute=minute-t.minute;
             diff second=second-t.second;
         }
         else
             diff hour=t.hour-hour;
             diff minute=t.minute-minute;
             diff second=t.second-second;
         //If time difference is negative then
converting to positive
         if(diff minute<0||diff second<0){</pre>
             diff minute=Math.abs(diff minute);
             diff second=Math.abs(diff second);
         }
         //If seconds greater than 59, increasing
minutes by 1
         if(diff second>59)
         {
             diff minute+=1;
             diff second-=59;
         //If minutes greater than 59, increasing hour by
1
         if (diff minute>59)
             diff hour+=1;
             diff minute-=59;
         System.out.println("\nTime difference:");
```

```
System.out.println(diff hour+"hours
"+diff minute+"minutes "+diff second+"seconds ");
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        //Objects creation of class
        Time t1=new Time();
        Time t2=new Time();
        System.out.println("Time 1");
        //input value of time 1
        t1.input();
        System.out.println("Time 2");
        //input value of time 2
        t2.input();
        //display time values
        System.out.println("Time value 1:");
        t1.display();
        System.out.println("Time value 2:");
        t2.display();
        //display greater time value
        t1.great(t2);
        //display difference between time values
        t1.difference(t2);
    }
}
```