```
#include<iostream>
                                                 class
#include<ctime>
                                                     sh: CLS: command not found
#include<cstdlib>
                                                     06:06:01 PM
                                                     sh: CLS: command not found
                                                     06:06:02 PM
using namespace std;
                                                     sh: CLS: command not found
                                                     06:06:03 PM
int main()
                                                     sh: CLS: command not found
                                                     06:06:04 PM
                                                     sh: CLS: command not found
  int sec_prev=0;
                                                     06:06:05 PM
  while(1)
                                                     sh: CLS: command not found
                                                     06:06:06 PM
  {
                                                     sh: CLS: command not found
    int seconds, minutes, hours;
                                                     06:06:07 PM
    string str;
                                                     sh: CLS: command not found
                                                     06:06:08 PM
    //storing total seconds
    time_t total_seconds=time(0);
    //getting values of seconds, minutes and hours
    struct tm* ct=localtime(&total_seconds);
    seconds=ct->tm_sec;
    minutes=ct->tm_min;
    hours=ct->tm_hour;
    //converting it into 12 hour format
    if(hours>=12)
      str="PM";
    else
      str="AM";
    hours=hours>12?hours-12:hours;
    //printing the result
    if(seconds==sec_prev+1 || (sec_prev==59 && seconds==0))
    {
      system("CLS");
      cout<< (hours<10?"0":"") << hours <<":" << (minutes<10?"0":"") << minutes <<
           (seconds<10?"0":"") << seconds << " " << str <<endl;
    }
    sec_prev=seconds;
  return 0;
```

}

```
3 // homework=>data-structure
4 //
5 //
       Created by Hadi-cyb on 9/19/20.
6 //
8 #include <iostream>
9
  using namespace std;
10
void setTime(int &hour,int &minutes,int &seconds);
12 void printTime(int hour,int min,int sec);
13
14 class Time {
    public:
15
16
       int hour, min, sec;
17 };
18
19
  void setTime(int &h,int &m,int &s){
20
       Time timeObj;
21
22
       cout<<"hour: ";
23
       cin >> timeObj.hour;
24
       h=timeObj.hour;
25
       cout<<"minutes: ";</pre>
26
27
       cin >> timeObj.min;
28
       m=timeObj.min;
29
30
       cout<<"second: ";</pre>
31
        cin >> timeObj.sec;
32
        s=timeObj.sec;
33
34 }
35
36
   void printTime(int hour,int min,int sec){
        cout << "the custom time is: " << hour << ":" << min << ":" << sec <<endl;</pre>
37
38 }
39
40 int main() {
41
       int h, m, s = 0;
42
    setTime(h,m,s);
43
      if(m <= 60 && s<=60 && h<=24)
          printTime(h,m,s);
44
       else cout<<"went wrong !..."<<'\n';</pre>
45
46
47
48
        return 0;
49 }
```



minutes: 45 second: 30 the custom time is: 12:45:30 Program ended with exit code: 0