SECURE CODING LAB 8

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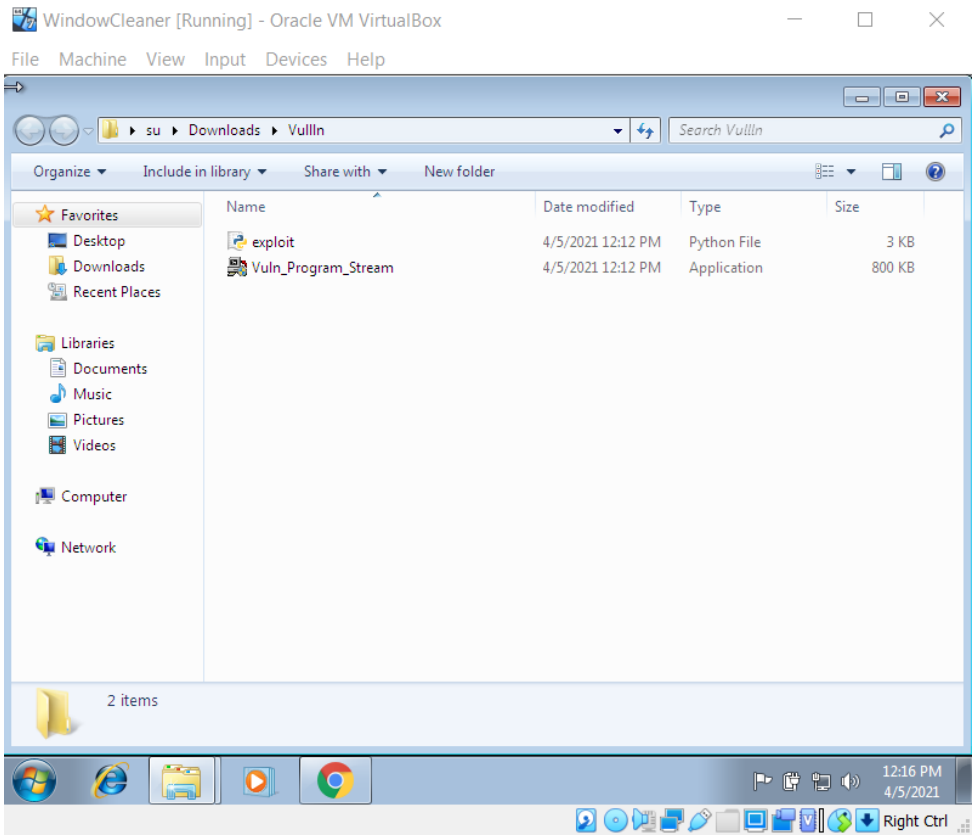
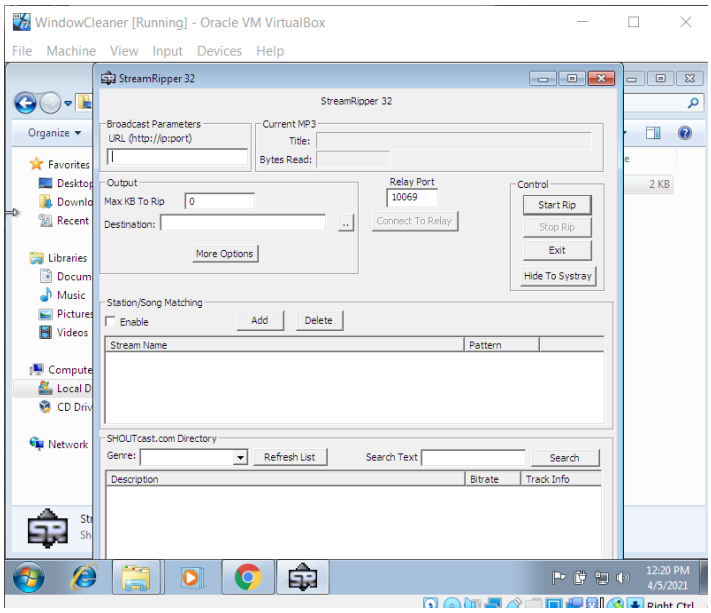
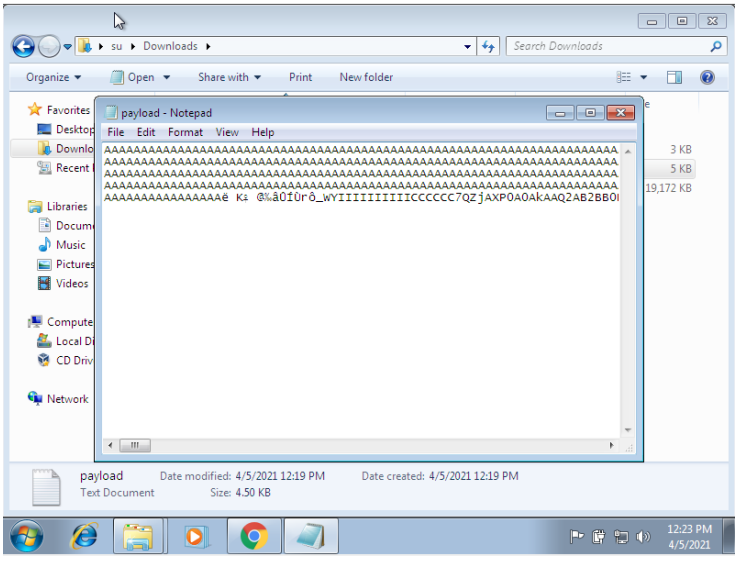
DATE: 05-04-2021

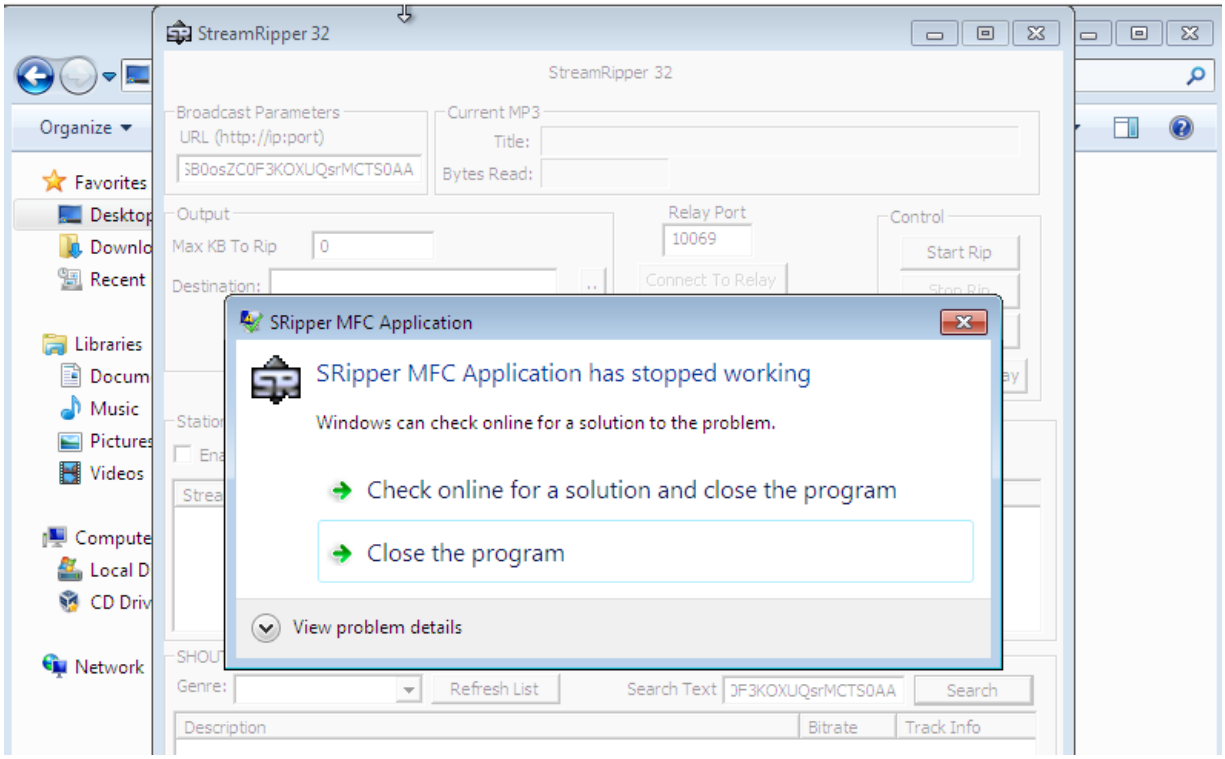
For this task too, we will be using our windows 7 virtual instance and will install and unzip the exploit and application.



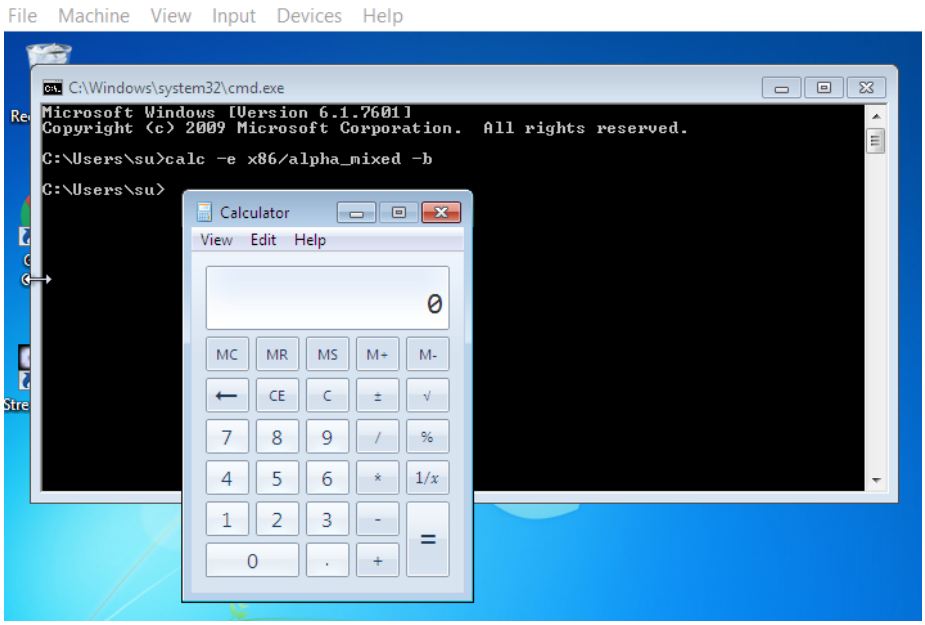




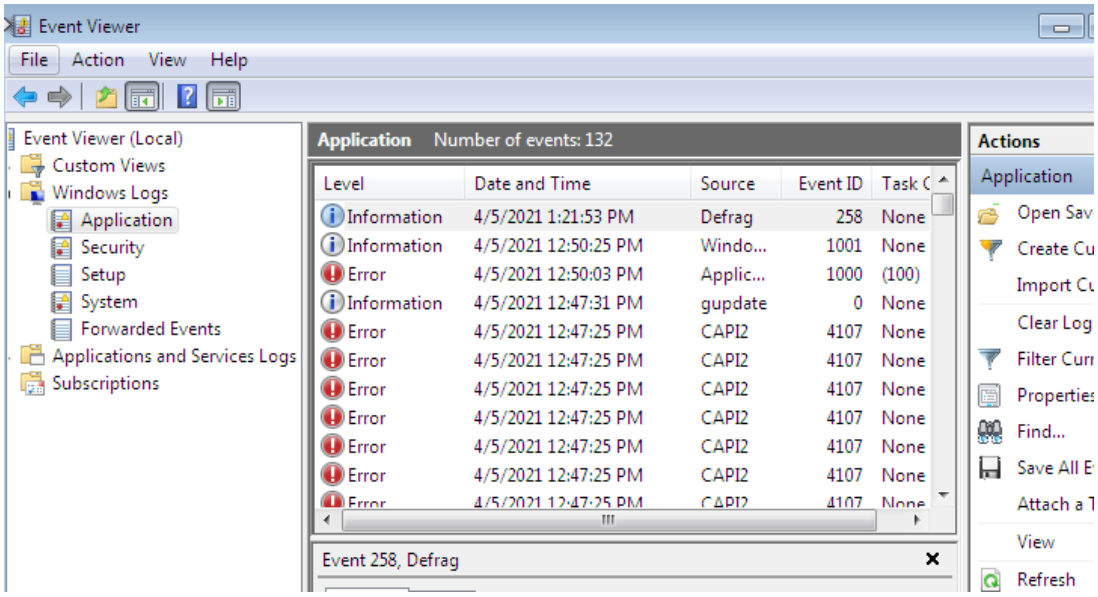
Now we go ahead and crash the app. This is caused by a buffer overflow from the payload. And this will trigger a message, like below.

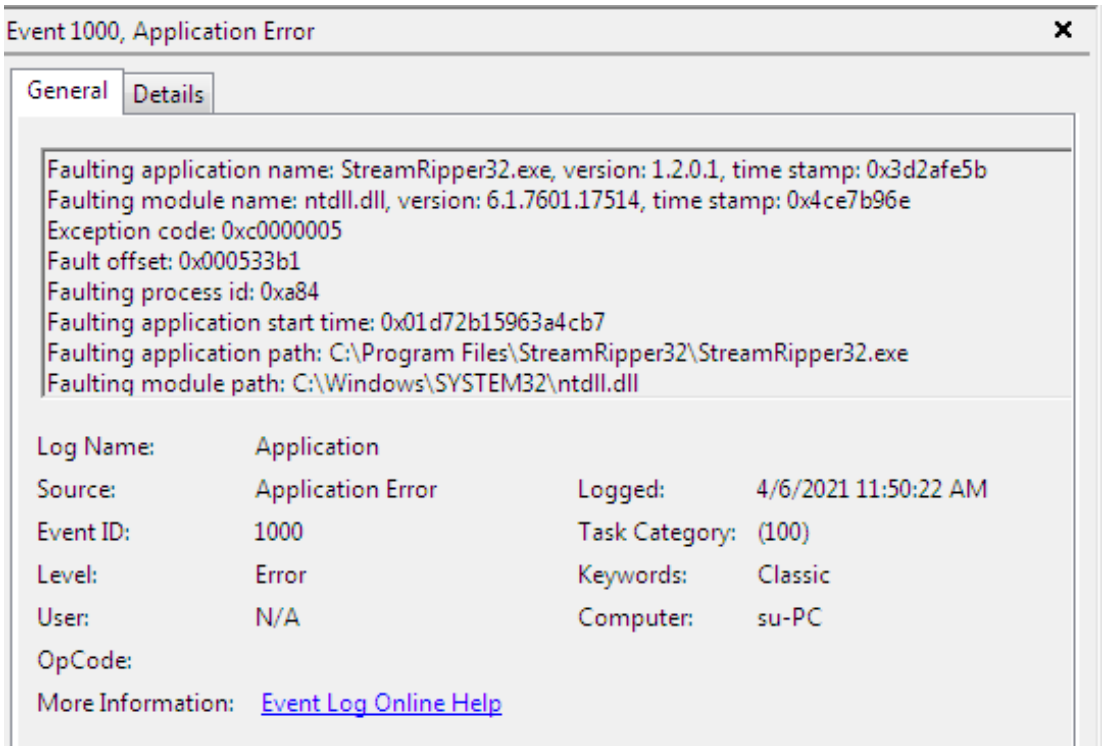


For a tiny digression, this is how we can call the calculator(or any app from the command prompt)



Now, to trigger an event of our choice when something happens, we can do so by analysing some of the event logs-
Each event has its own fixed attributes and handlers. When Stream App is crashed, an Application error is generated and it gets stored in the log with all its information.

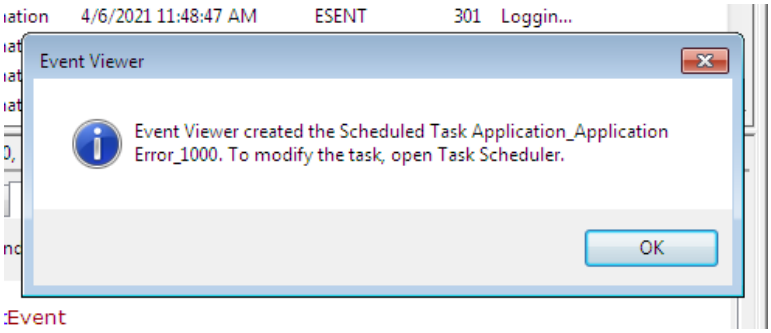




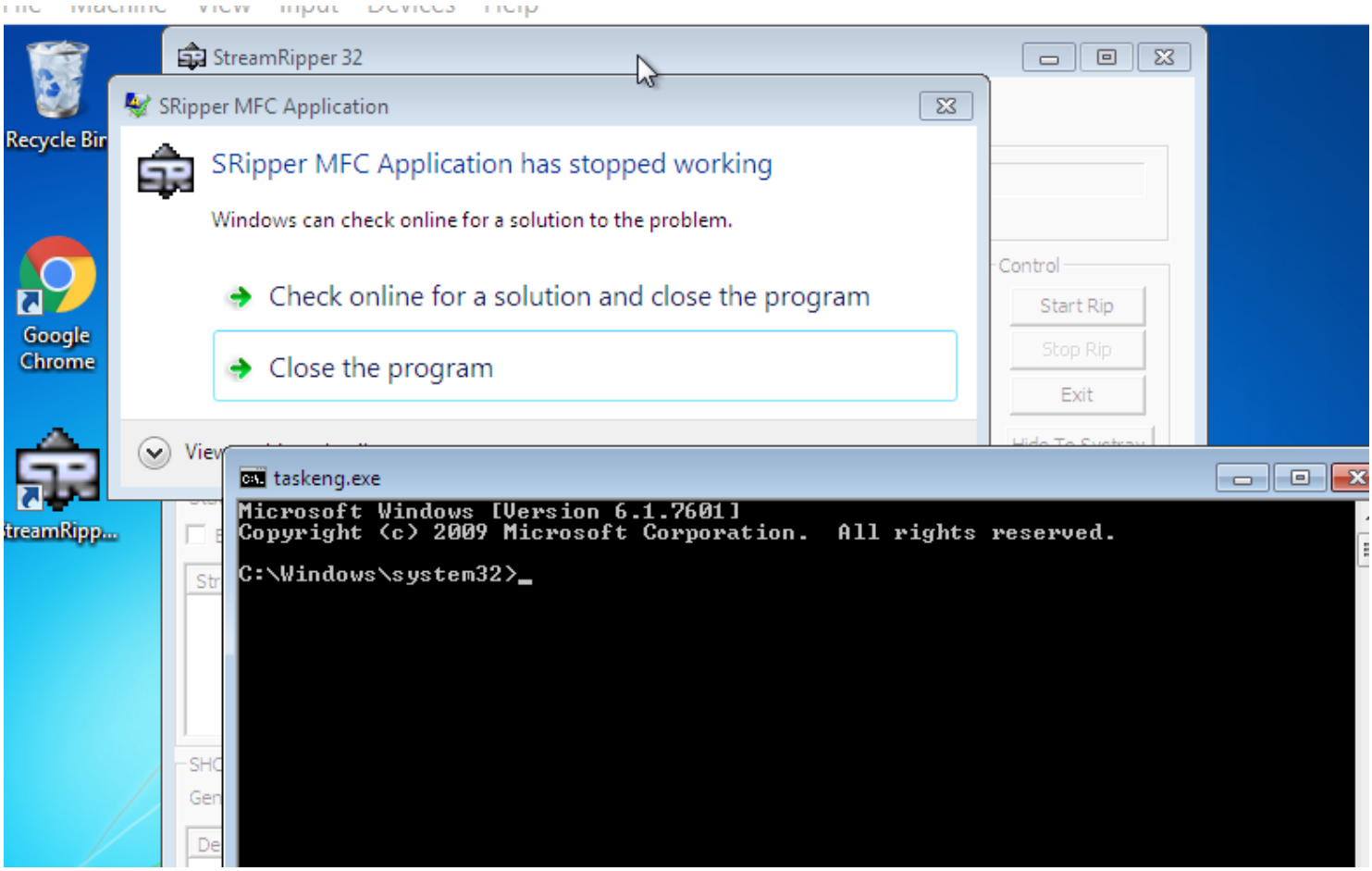

```
- <Event
    xmlns="http://schemas.microsoft.com/win/2004/08/events/e
  - <System>
      <Provider Name="Application Error" />
      <EventID Qualifiers="0">1000</EventID>
      <Level>2</Level>
      <Task>100</Task>
      <Keywords>0x80000000000000</Keywords>
      <TimeCreated SystemTime="2021-04-
        06T18:50:22.000000000Z" />
      <EventRecordID>148</EventRecordID>
      <Channel>Application</Channel>
      <Computer>su-PC</Computer>
      <Security />
    </System>
```

Now, the steps involved to create a trigger (from gui) are simple, we right click the error message here and create an event trigger. It is a simple enough procedure, we have the option to put in whatever call, script for any application to open.

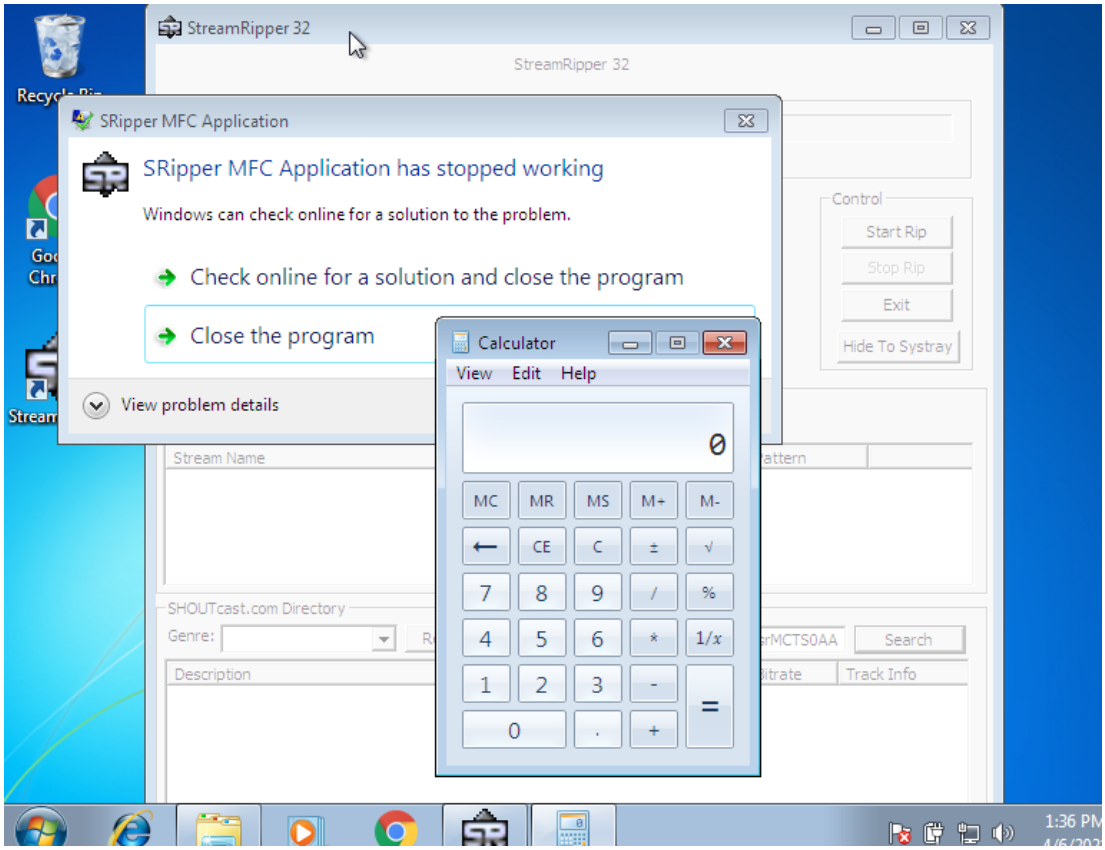
In this way several tasks can be initiated upon any event trigger.



Below, we have opened the command prompt on the error occuring, so next time we crash, it opens up cmd.exe



Next, we put in calc.exe as default trigger on crash and it opens up, as programmed.


StreamRipper 32
StreamRipper 32
SRipper MFC Application
SRipper MFC Application has stopped working
Windows can check online for a solution to the problem.
Check online for a solution and close the program
Close the program
View problem details
Calculator
View Edit Help
0
MC MR MS M+ M-
CE C ± √
7 8 9 / %
4 5 6 * 1/x
1 2 3 - =
0 . +
Control
Start Rip
Stop Rip
Exit
Hide To Systray
Stream Name
SHOUTcast.com Directory
Genre:
Search
Description
Track Info
1:36 PM