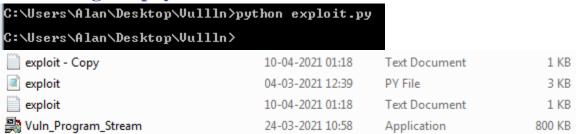
### **Task**

- Download Vulln.zip from teams.
- Deploy a virtual windows 7 instance and copy the Vulln.zip into it.
- Unzip the zip file. You will find two files named exploit.py and Vuln\_Program\_Stream.exe
- Download and install python 2.7.\* or 3.5.\*
- Run the exploit script to generate the payload
- Install Vuln\_Program\_Stream.exe and Run the same

## Generating the payload:



**Exploit.py** 

Output file:



Payload copied to clipboard.

Buffer Overflow occurs in 3 instances:

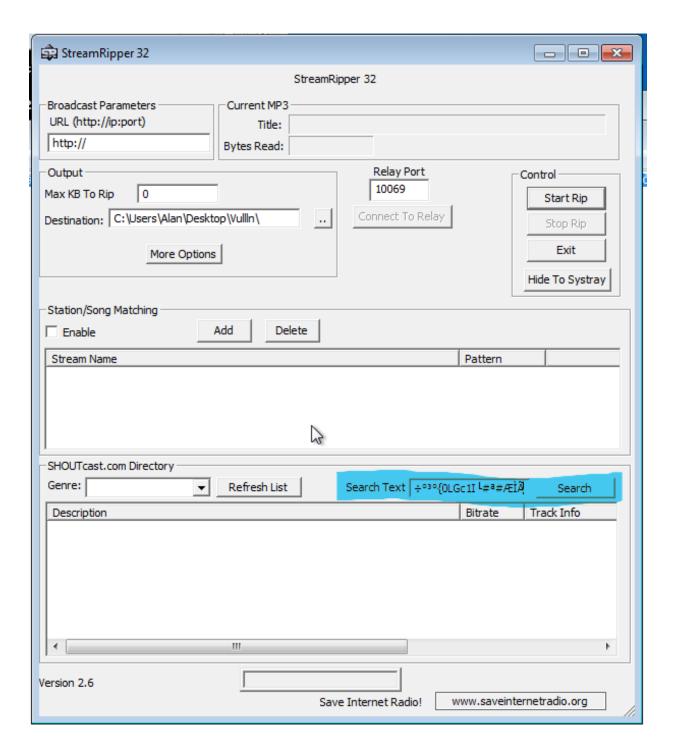
- From search text box
- From station pattern text box
- From song pattern text box

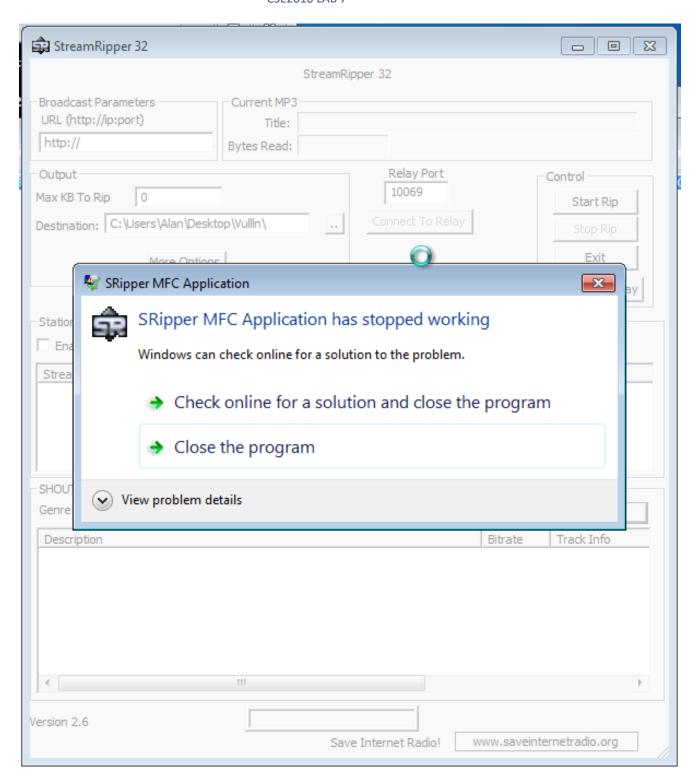
## **Analysis**

Payload has been generated. All Input boxes to be checked for buffer overflow by inserting the payload.

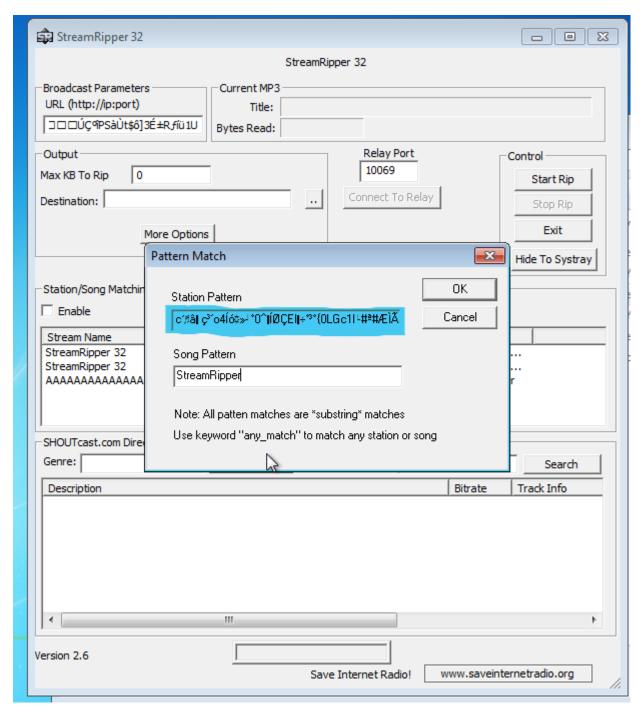
Buffer Overflow is a vulnerability in a code or program. while writing data to a buffer, it overflows to the next buffer and overwrites adjacent memory locations. This makes the application vulnerable to data leaks, unauthorized access, crashes.

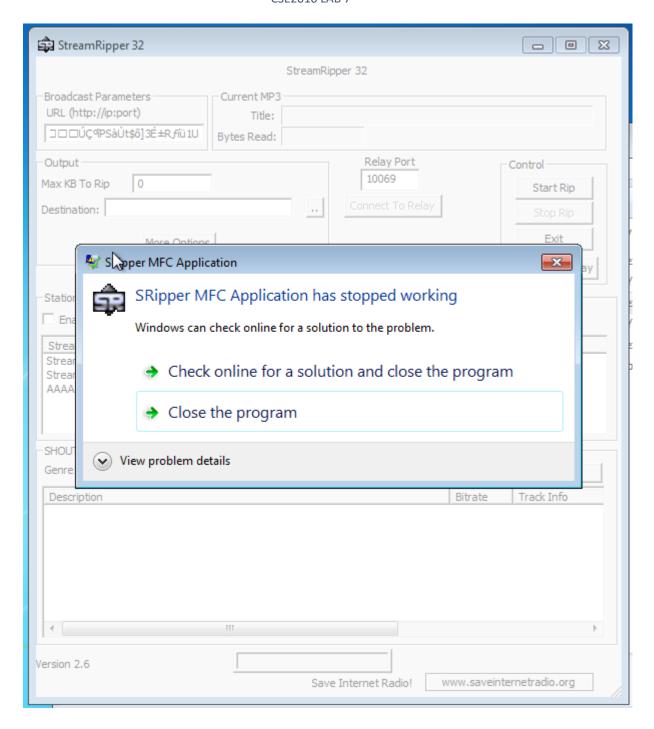
#### 1. Search Text Box:



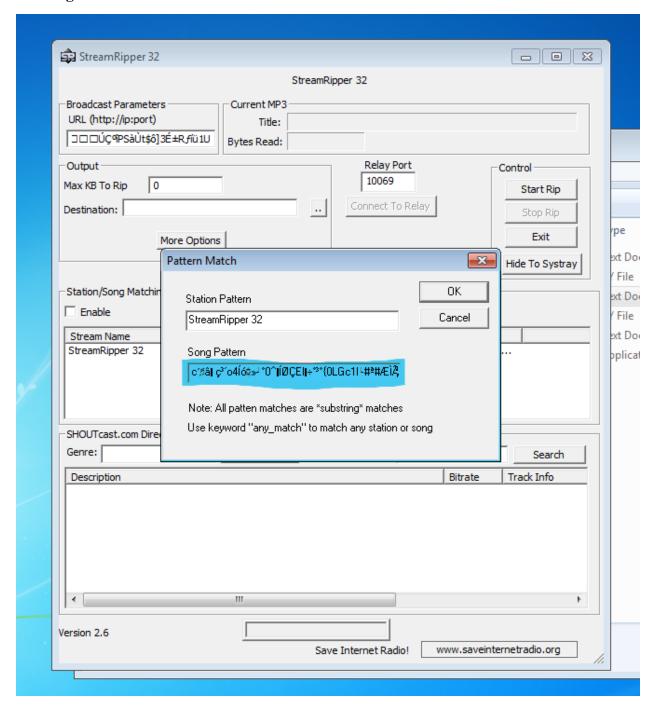


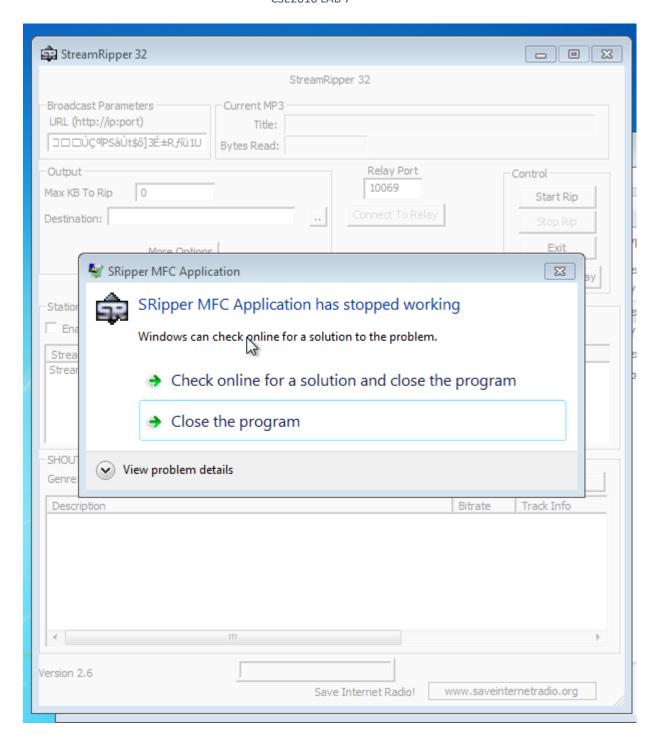
#### 2. Station Pattern Text Box





### 3. Song Pattern Box





# **Conclusion**

Buffer overflow vulnerability found in 3 input fields:

- Search Box
- Station pattern
- Song pattern

In all three cases, the application crashes.