ASSIGNMENT - 10

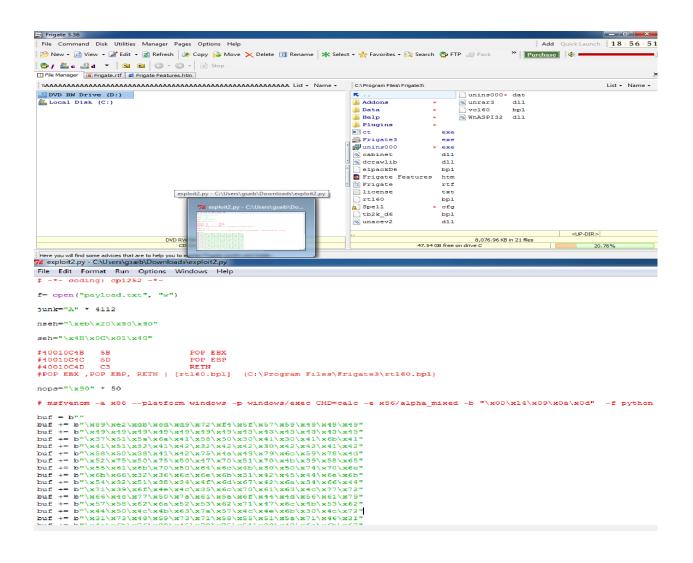
Working with the memory vulnerabilities - Part IV

Name : Chaitanya Faculty : Dr. Sibi Chakkaravarthy S

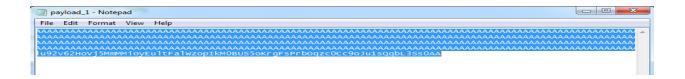
Reg Num: 19BCN7083 Subject: Secure Coding

Crashing the StreamRipper

Install frigate and find the user interactive to abuse the application



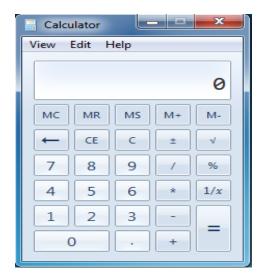
Generate the payload with given exploit2.py and paste the generated payload to abuse the application .



Abuse the application with generated payload.

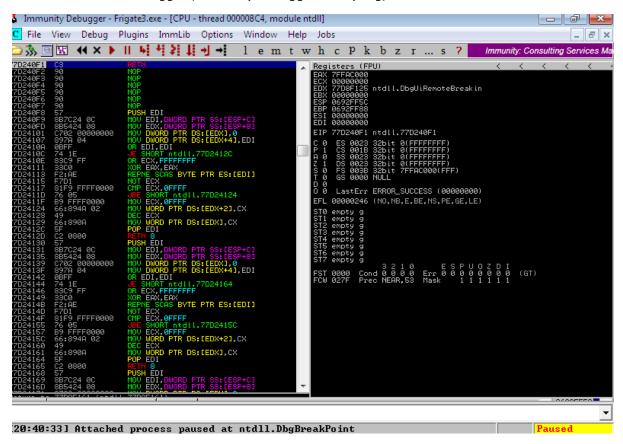


Then it will trigger the calc.exe



Now open debugger and load the frigate3.exe

Attach the debugger (immunity debugger or ollydbg)



> Address of various registers

```
Registers (FPU)
    0019FFCC
               Frigate3.<ModuleEntryPoint>
    00401000 Frigate3. (ModuleEntryPoint)
    00256000
0019FF74
    0019FF80
EBP
    00401000 Frigate3. (ModuleEntryPoint)
    00401000 Frigate3. < ModuleEntryPoint>
    00401000 Frigate3. < ModuleEntryPoint>
     ES 002B 32bit 0(FFFFFFFF)
CPANST
     CS 0023
SS 002B
              32bit
32bit
                     0(FFFFFFF
  0100
                     0(FFFFFFF)
     DS 002B 32bit 0(FFFFFFFF)
     FS 0053 32bit 259000(FFF)
GS 002B 32bit 0(FFFFFFFF)
Ď
     LastErr ERROR_SUCCESS (00000000)
EFL 00000246 (NO,NB,E,BE,NS,PE,GE,LE)
ST0 empty g
    empty g
    empty
    empty
    empty
    empty
           3 2 1 0
Cond 0 0 0 0
                            ESPU02DI
Err 00000000
FST 0000
                                                     (GT)
FCW 027F
           Prec NEAR, 53
                            Mask
```

> EIP address

	77A540F0	CC	INTS
EIP 77A540F1 ntdll.77A540F1		C3	RETN
	77A540F2	90	NOP

> SEH chain

```
00000000
0019D1C8
0019D1CC
0019D1CC
                                                       .n@w ntdll.77016E2C
                             77016E2C
00000010
                             00000018
0019D1D4
0019D1D8
0019D1DC
                            00000000
0019D228
00000200
                            00000200
00000000
008941D0 -Aë
770F6668 hf*w
0019D1E0
0019D1E4
0019D1E8
0019D1EC
0019D1F0
0019D1F4
0019D1FC
0019D204
0019D204
0019D204
0019D206
0019D210
0019D210
0019D210
0019D210
0019D220
0019D220
0019D220
0019D220
0019D230
0019D230
0019D230
0019D230
                                                      hf*w ntdll.770F6668
                             0000006C
                            00000000
                                                     ∴Aë.
                            .e..
                            00000000
00000200
008977E0
008977E0
7701C79C
0019D558
008941D0
                                                      ∝wë.
                                                      £||@w ntdll.77010790
                                                     Χŗ↓.
≖Aë.
                           008941D0 #Aë.
770F5BA0 á[*₩ ntdll.770F5BA0
006F6DA8 ¿mo. Frigate3.006F6DA8
0019D528 ( f↓.
00000000 ...
008941D0 #Aë.
00000000 ...
0019D274 tπ↓.
7701F633 3÷0₩ ntdll.7701F633
                                                      3÷0₩ ntdll.7701F633
hf*w ntdll.770F6668
                             770F6668
```

Verify the SEH chain and report the DLL loaded along with the addresses.

