## **CSE-2010**

## Secure Coding(L23 + L24)



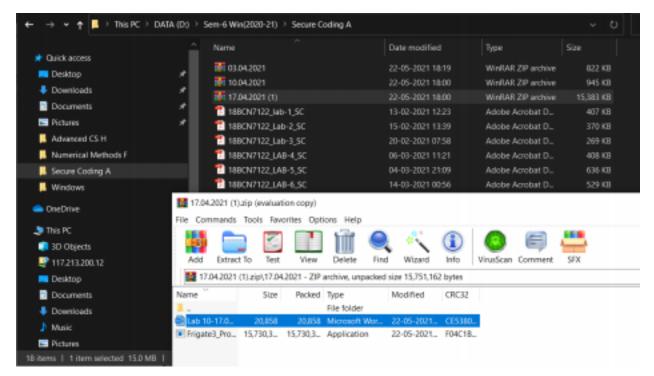
## **Lab - 10**

Name:-TarunKashyap

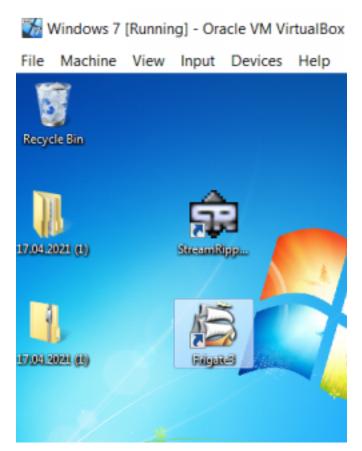
Reg no :- 18BCD7183

Task

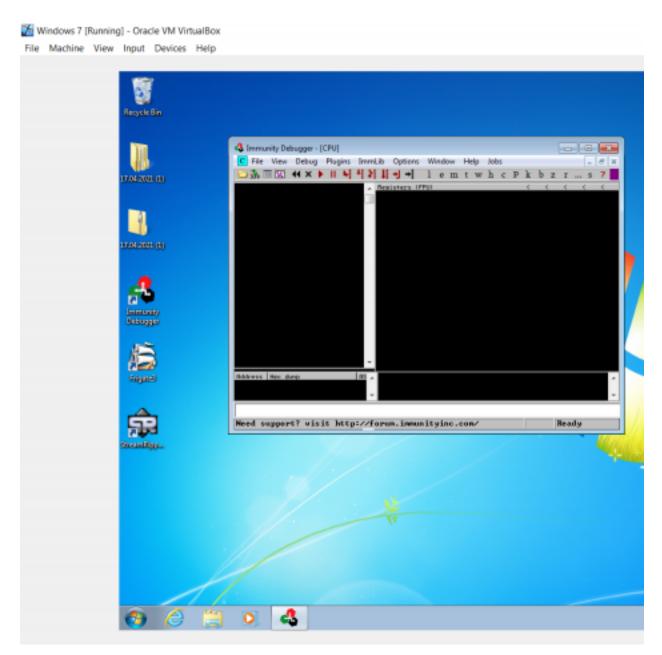
Download Frigate3\_Pro\_v36 from teams (check folder named 17.04.2021).



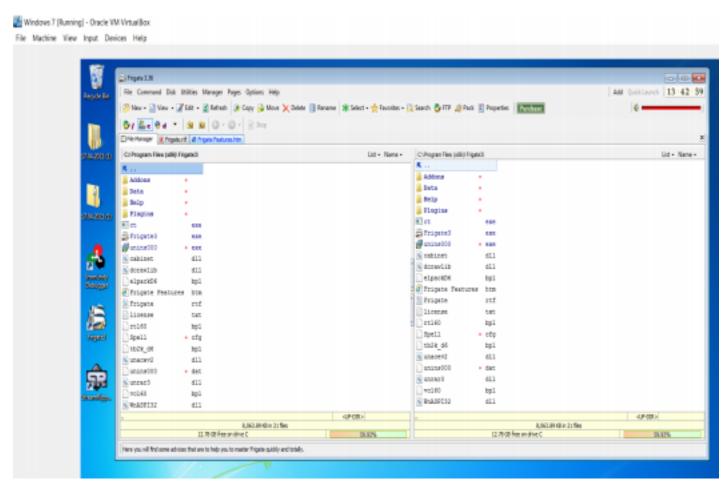
Deploy a virtual windows 7 instance and copy the Frigate3\_Pro\_v36 into it.



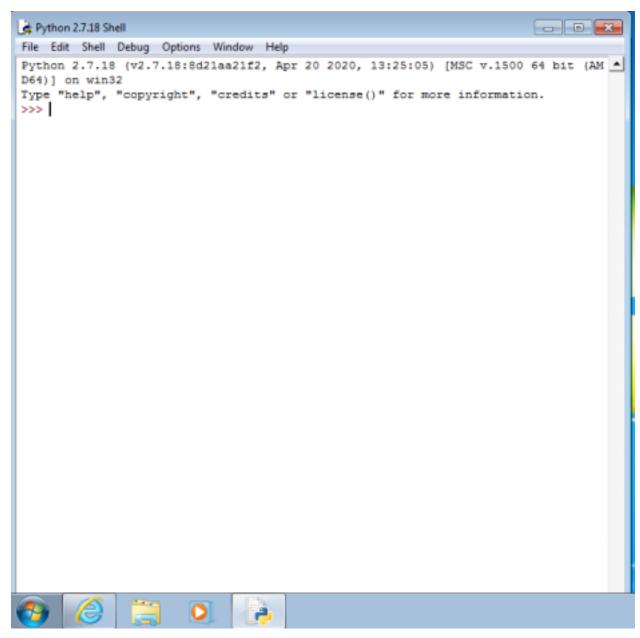
Install Immunity debugger or ollydbg in windows7



Install Frigate3\_Pro\_v36 and Run the same



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

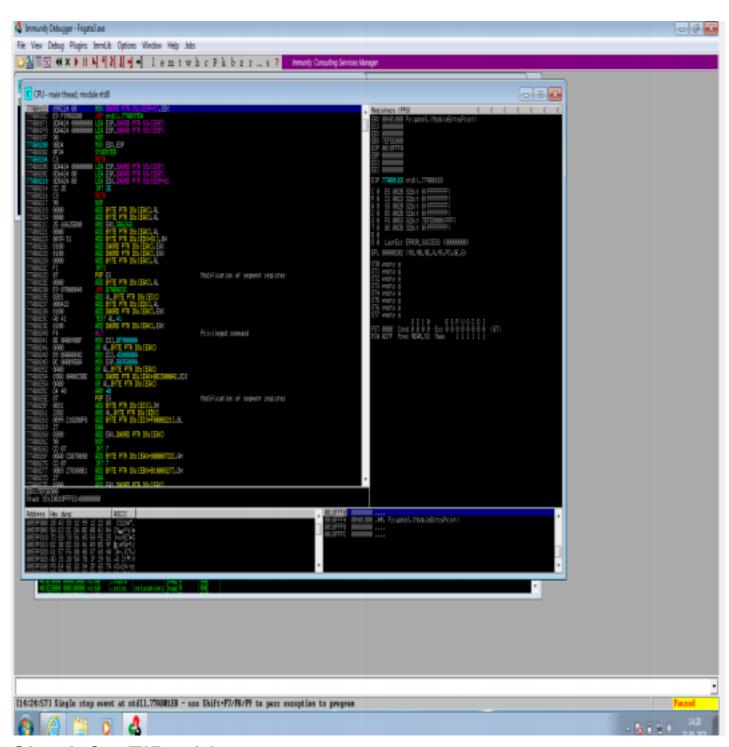


## 1. Analysis:-

Try to crash the Frigate3\_Pro\_v36 and exploit it. Change the default trigger from cmd.exe to calc.exe (Use msfvenom in Kali linux).

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

x86/alpha\_mixed -b "\x00\x14\x09\x0a\x0d" -f python
Attach the debugger (immunity debugger or ollydbg)
and analyse the address of various registers listed
below



**Check for EIP address** 

Verify the starting and ending addresses of stack frame

```
RETURN to ntdll.77B3F306 from ntdll.DbgBreakPoint
       CFFFDC 00000000 ....

CFFFD4 00000000 ....

27CFFFEC 0 = ....

CFFFD8 77AD9805 #jiu RETURN to ntdll.77AD9805 from ntdll.77AD9808

CFFFDC 77B3F2CA = 2 | u ntdll.DbgUiRenoteBreakin

CFFFE0 00000000
           88888888 ....
7783F2CA <sup>±</sup>2|w ntdll.DbgUiRenoteBreakin
88888888 ....
```

Verify the SEH chain and report the dll loaded along with the addresses. For viewing SEH chain, goto view à SEH