CSE-2010

Secure Coding(L23 + L24)



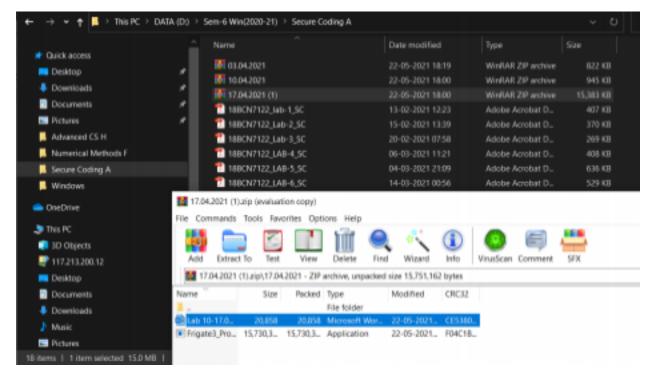
Lab - 10

Name:-Amritmoy Pain

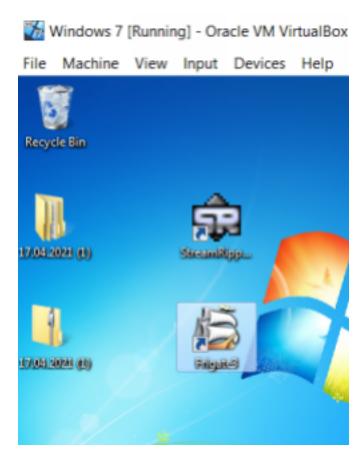
Reg no :- 18BCE7344

Task

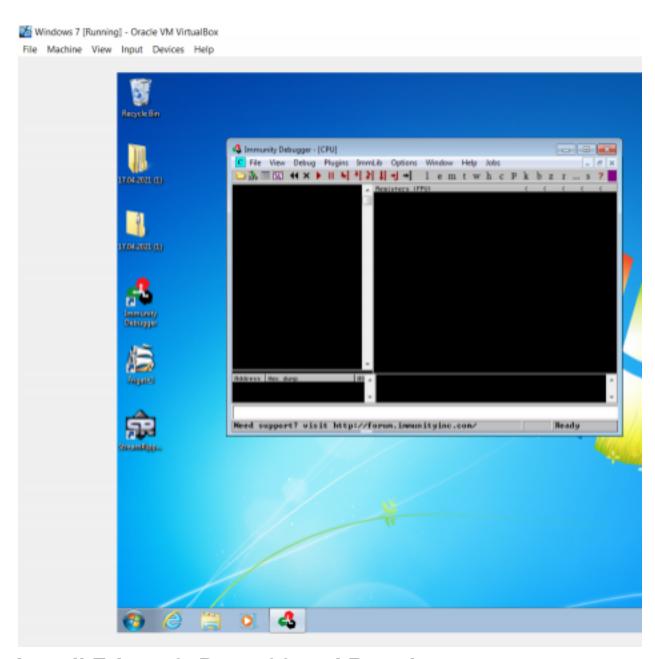
Download Frigate3_Pro_v36 from teams (check folder named 17.04.2021).



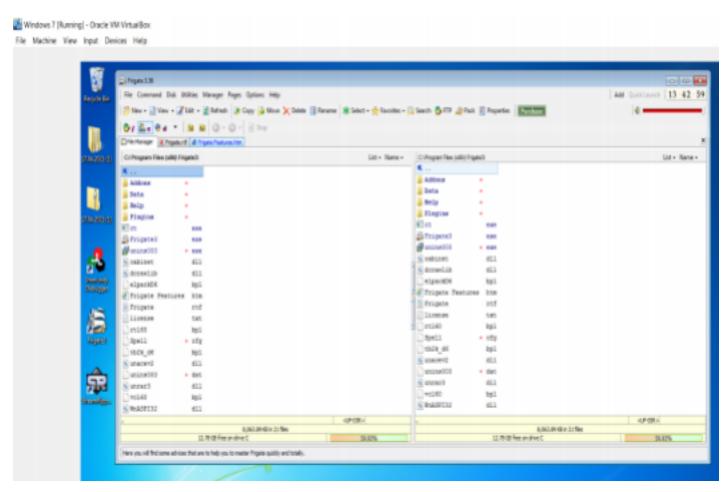
Deploy a virtual windows 7 instance and copy the Frigate3_Pro_v36 into it.



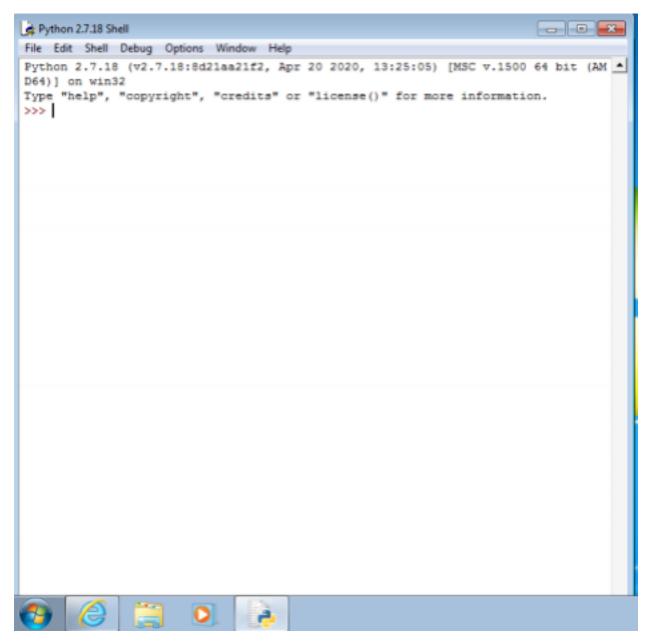
Install Immunity debugger or ollydbg in windows7



Install Frigate3_Pro_v36 and Run the same



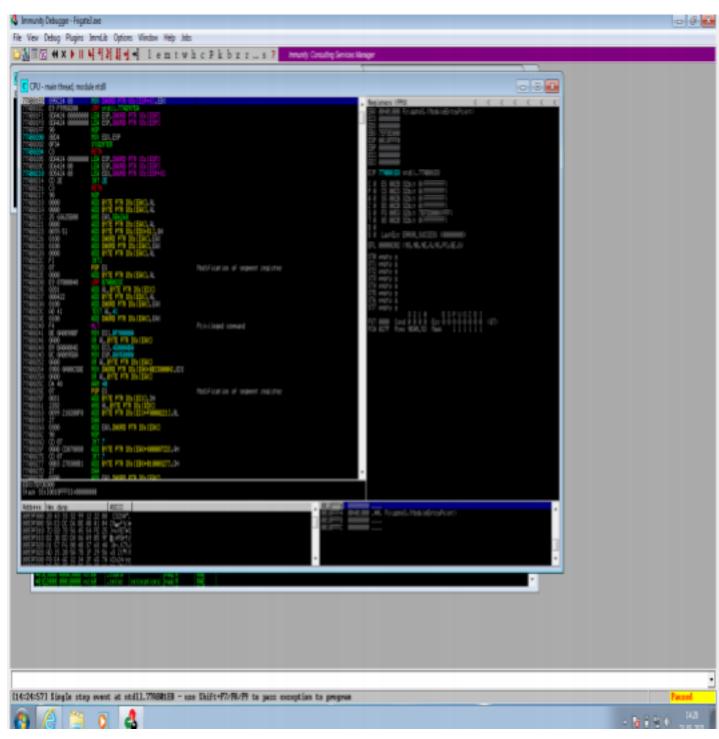
Download and install python 2.7.* or 3.5.*



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.77B3F386 from ntdll.DbgBreakPoint
            — = Pointer to next SEH record
=>n≅w SE handler
↑™t. Frigate3.0074C818
            =48u RETURN to kernel32.75B1343D
            2010 RETURN to ntdll.77AD9832
 778140CD =MWw SE handler chain 06748508 #ht. Frigates.00748508 07CFFFEC 00 = 277909805 #dii
200000000 ....
77B3F2CA ^2|w ntdll.DbgUiRenoteBreakin
80000000 ....
```

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