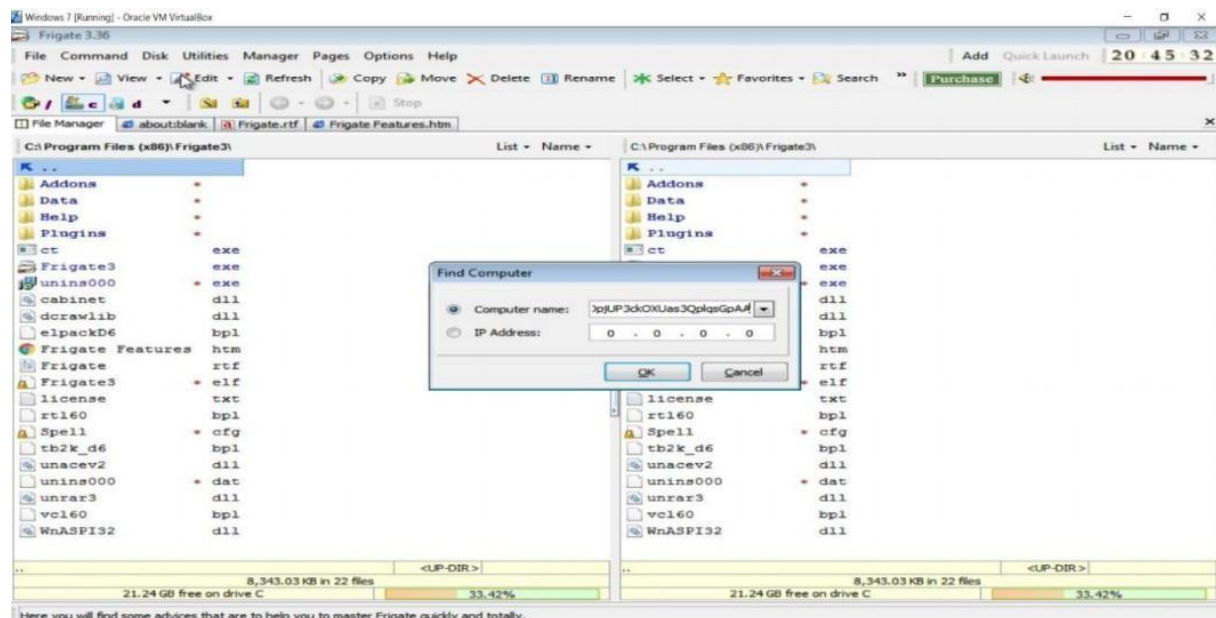


# SECURE CODING LAB 10

Name: Achal Krishna

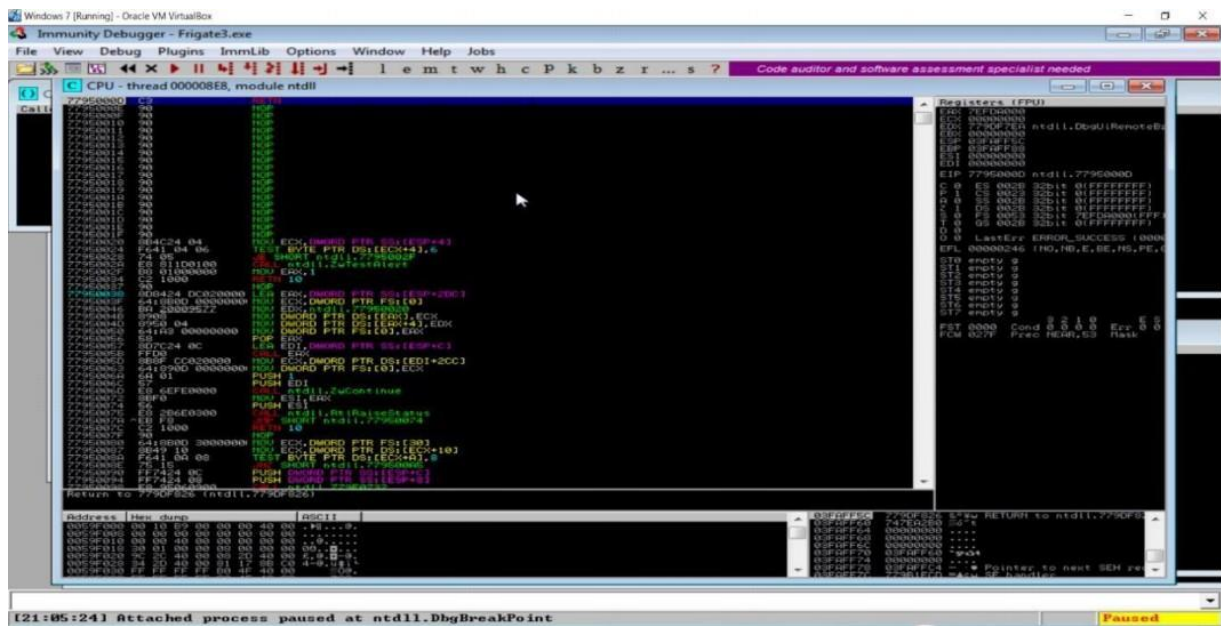
Reg no:18BCN7024

Crashing the Frigate3\_Pro\_v36 application and opening calc.exe (Calculator) by triggering it using the above generated payload:

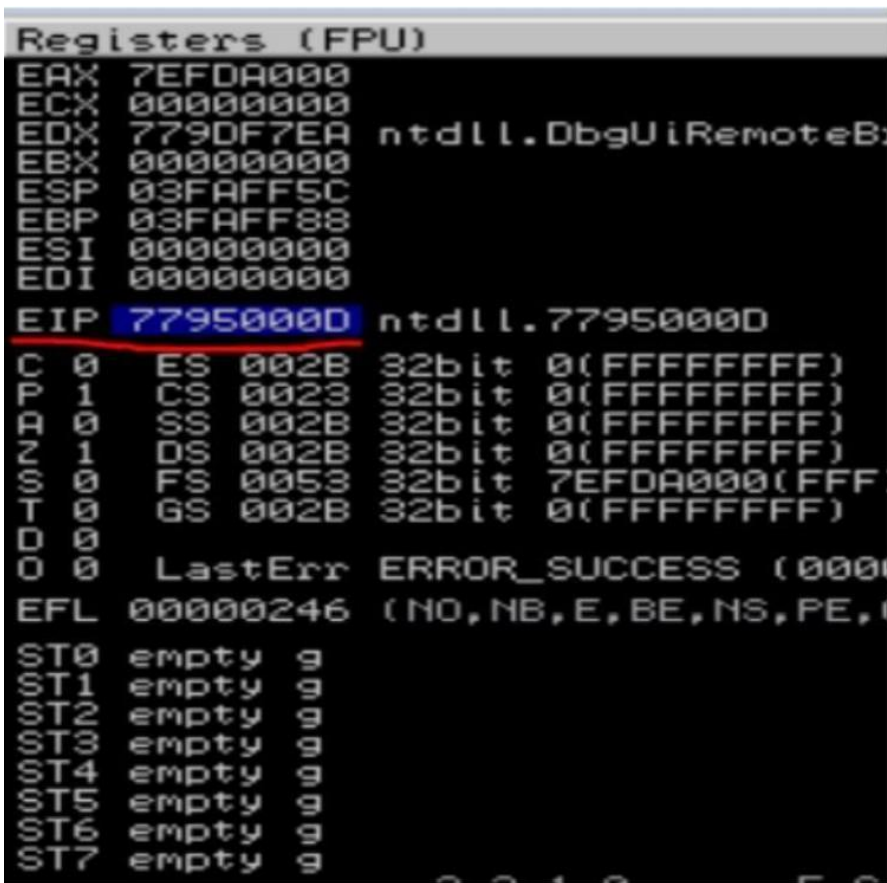


Before Execution (Exploitation): Attaching the debugger (Immunity debugger) to the application

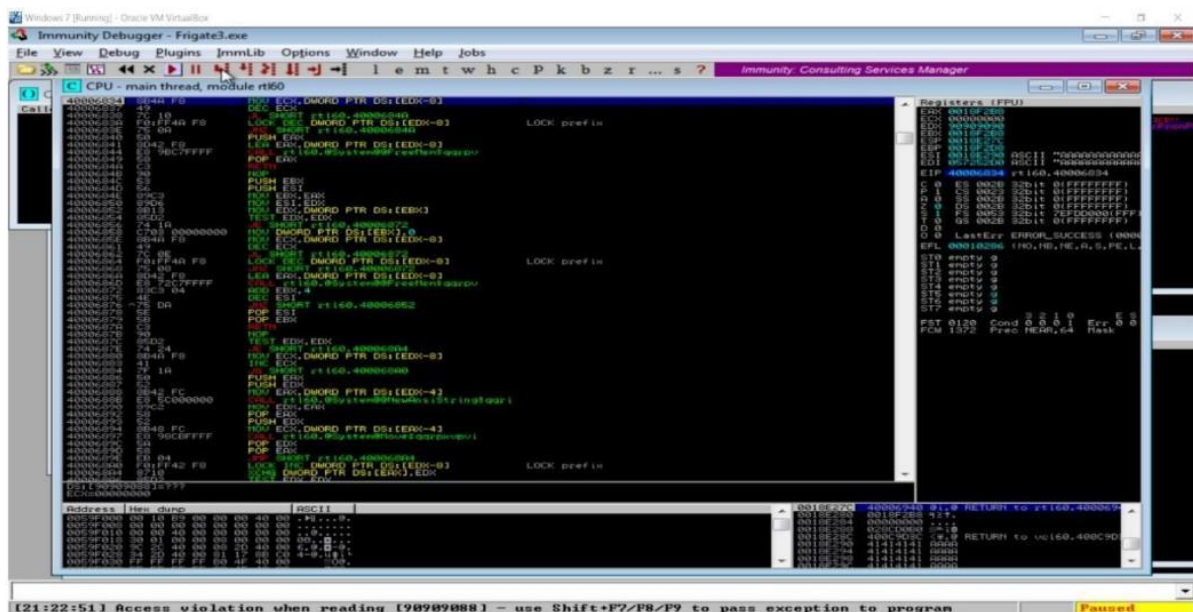
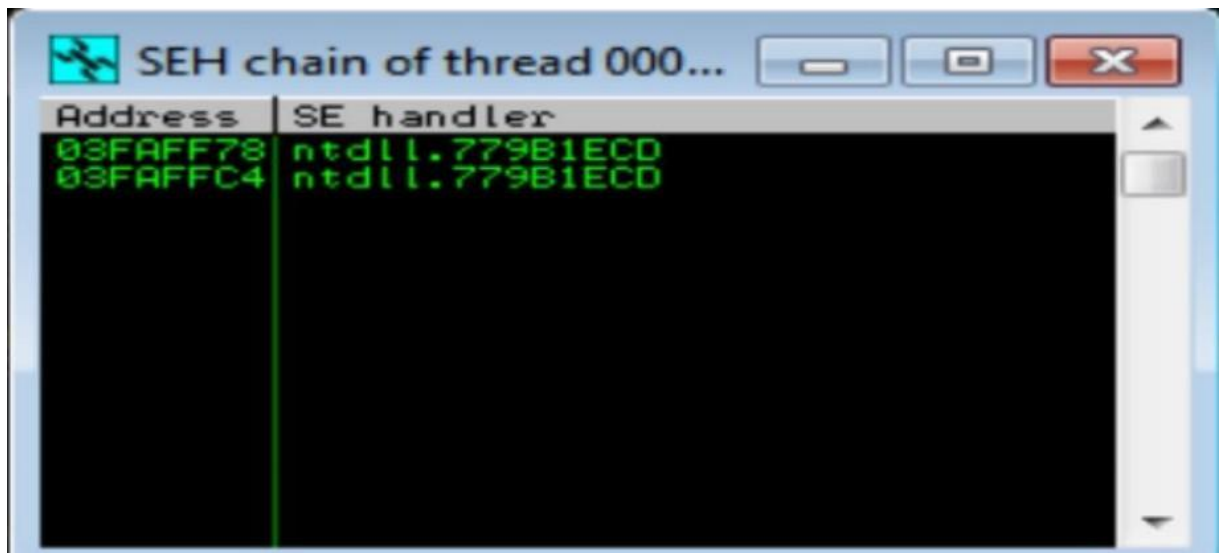
Frigate3\_Pro\_v36 and analysing the address of various registers:



Checking for EIP address:



Verifying the SHE chain:



Checking for EIP address:

```
Registers (FPU)
EAX 0018F2B8
ECX 00000000
EDX 90909090
EBX 0018F2B8
ESP 0018E27C
EBP 0018F2D8
ESI 0018E290 ASCII "AAAAAAAAAAAAAA"
EDI 057252D0 ASCII "AAAAAAAAAAAAAA"
EIP 40006834 rtl60.40006834
C 0 ES 002B 32bit 0(FFFFFFFF)
P 1 CS 0023 32bit 0(FFFFFFFF)
A 0 SS 002B 32bit 0(FFFFFFFF)
Z 0 DS 002B 32bit 0(FFFFFFFF)
S 1 FS 0053 32bit 7EFDD000(FFF)
T 0 GS 002B 32bit 0(FFFFFFFF)
D 0
O 0
0 0 LastErr ERROR_SUCCESS (0000)
EFL 00010286 (NO,NB,NE,A,S,PE,L)
ST0 empty 9
ST1 empty 9
ST2 empty 9
ST3 empty 9
ST4 empty 9
ST5 empty 9
ST6 empty 9
ST7 empty 9
FST 0120 Cond 0 0 0 1 Err 0 0
FCW 1372 Prec NEAR,64 Mask
```

Verifying the SEH chain and reporting the dll loaded along with the addresses:



Address	SE handler
0018F2A0	rtl60.40010C4B
909020EB	*** CORRUPT ENTRY ***

Hence from the above analysis we found that the dll 'rtl60.40010C4B' is corrupted and is located at the address '0018F2A0'.