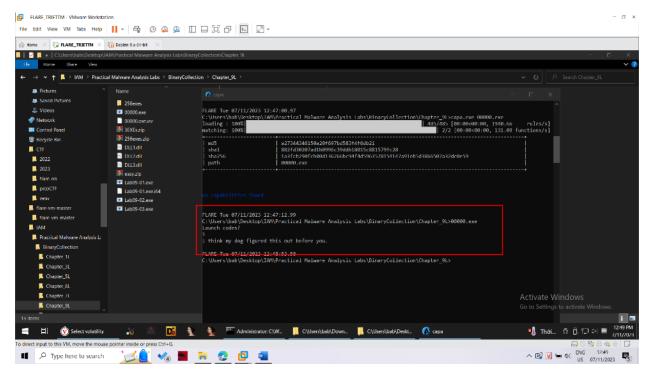
## Lab 15: Patching EXEs with Ollydbg

## **Patching an EXE**

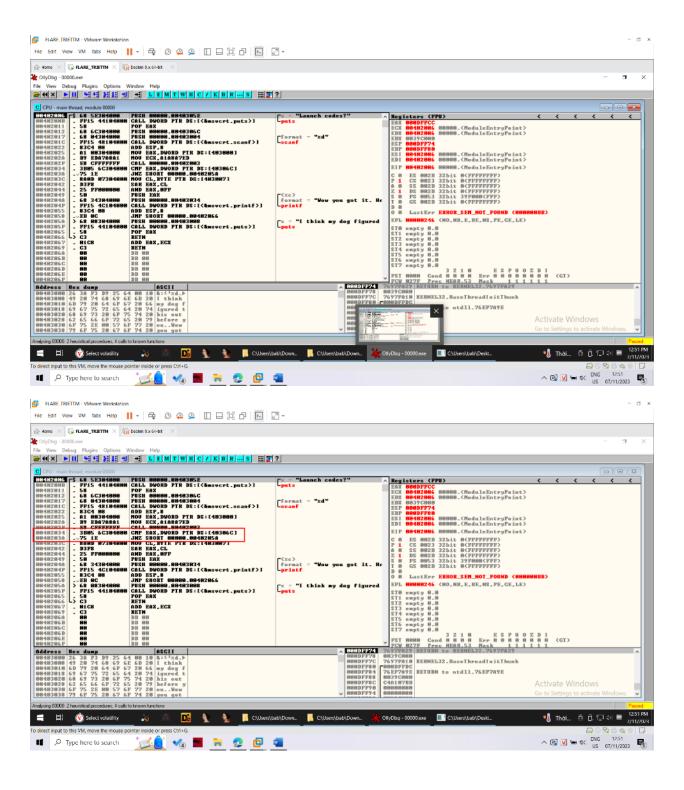
Check hash file exe

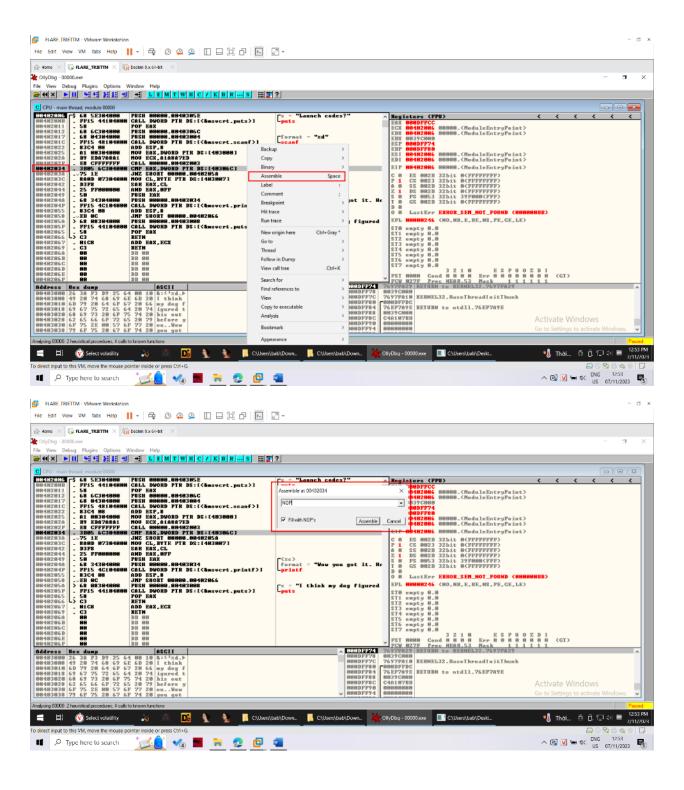
## **Running the EXE**

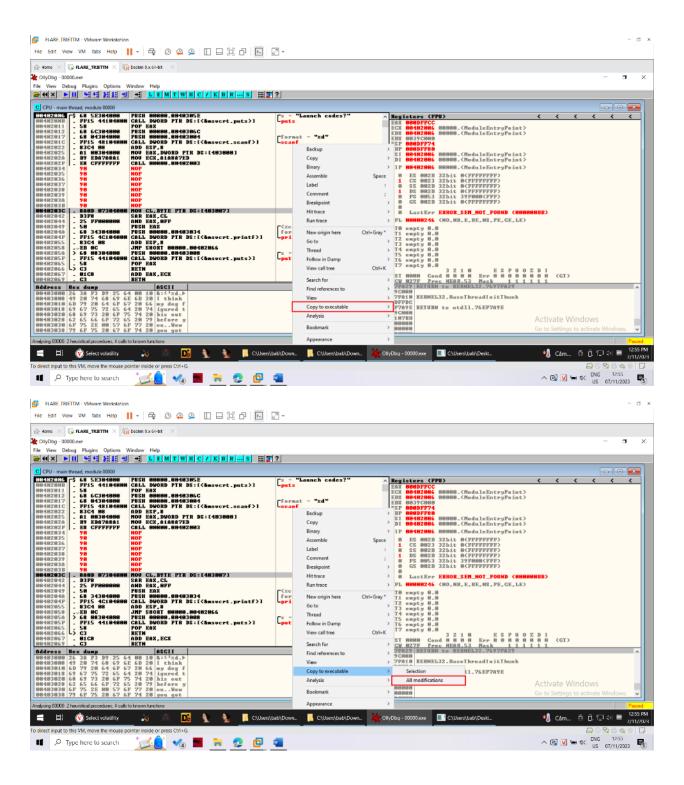
Chạy thử file exe này.

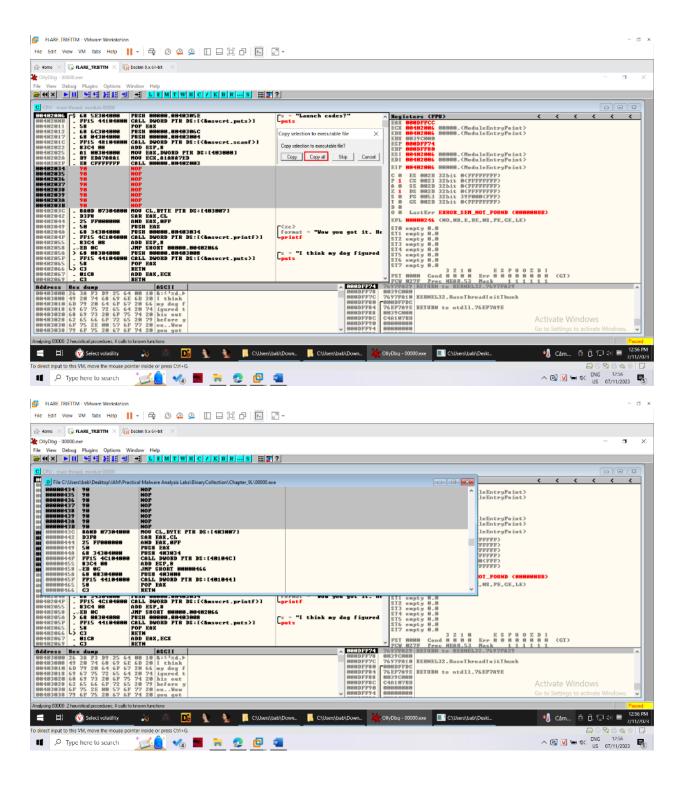


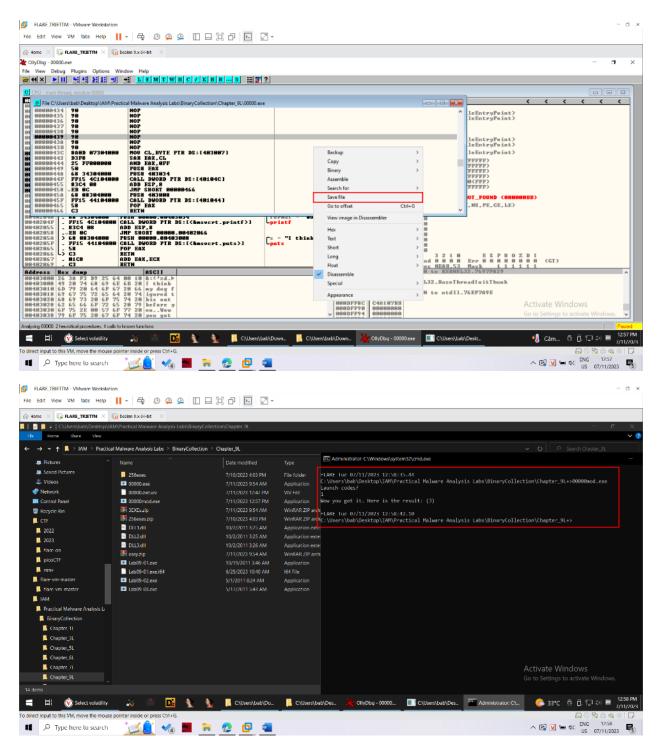
**Examining the EXE with Ollydbg** 



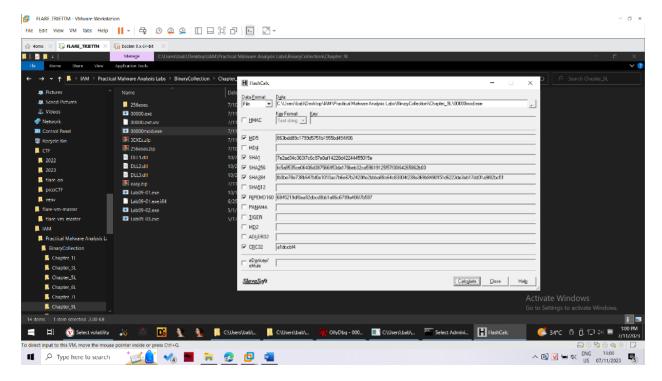




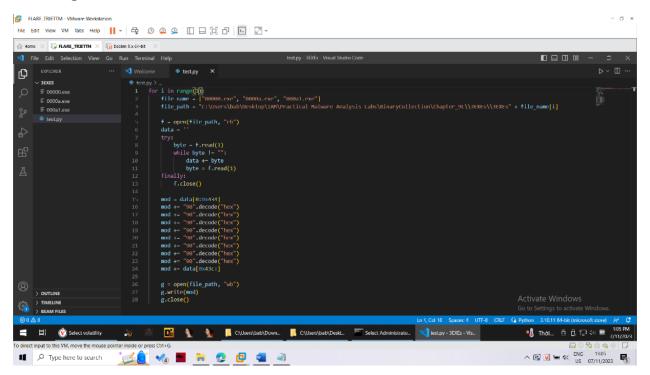


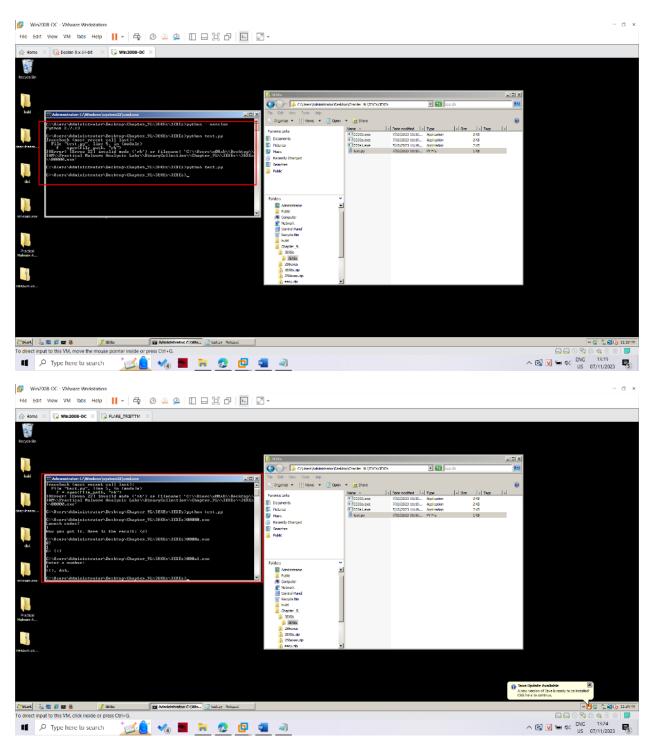


**Checking the Hash** 

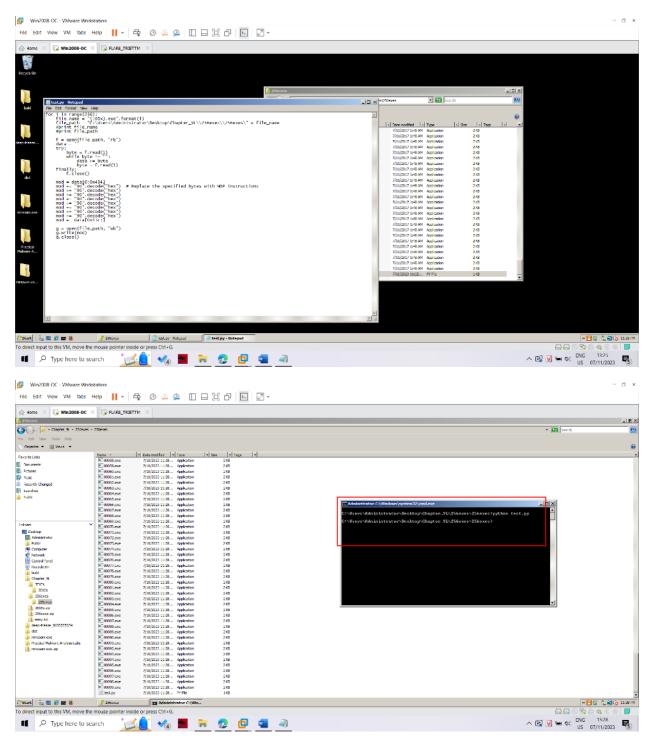


## **Patching Three EXEs**





Patching 256 EXEs



Because 256 file have the different offset, so we have to scripting a bit difficult to patch. I use following script

```
import os
import pefile
from capstone import *
from capstone.x86 import *
```

```
dir = "C:\\Users\\bab\\Desktop\\256exes\\"
for filename in os.listdir(dir):
    print(filename)
    file = pefile.PE(filename)
    code section = None
    for section in file.sections:
        if section.Characteristics &
pefile.SECTION_CHARACTERISTICS["IMAGE_SCN_MEM_EXECUTE"]:
            code section = section
            break
    CODE_BASE = code_section.VirtualAddress
    CODE_SIZE = code_section.SizeOfRawData
    code_data = file.get_memory_mapped_image()[CODE_BASE : CODE_BASE + CODE_SIZE]
    md = Cs(CS_ARCH_X86, CS_MODE_32)
    for insn in md.disasm(code_data, CODE_BASE):
        if( insn.mnemonic == "cmp" ):
            patched code = b"\x90\x90\x90\x90\x90\x90\x90\x90\x90"
            file.set_bytes_at_rva(insn.address, patched_code)
            break
    file.write("patched_" + filename)
```

Using above script then all file will corectly patched.