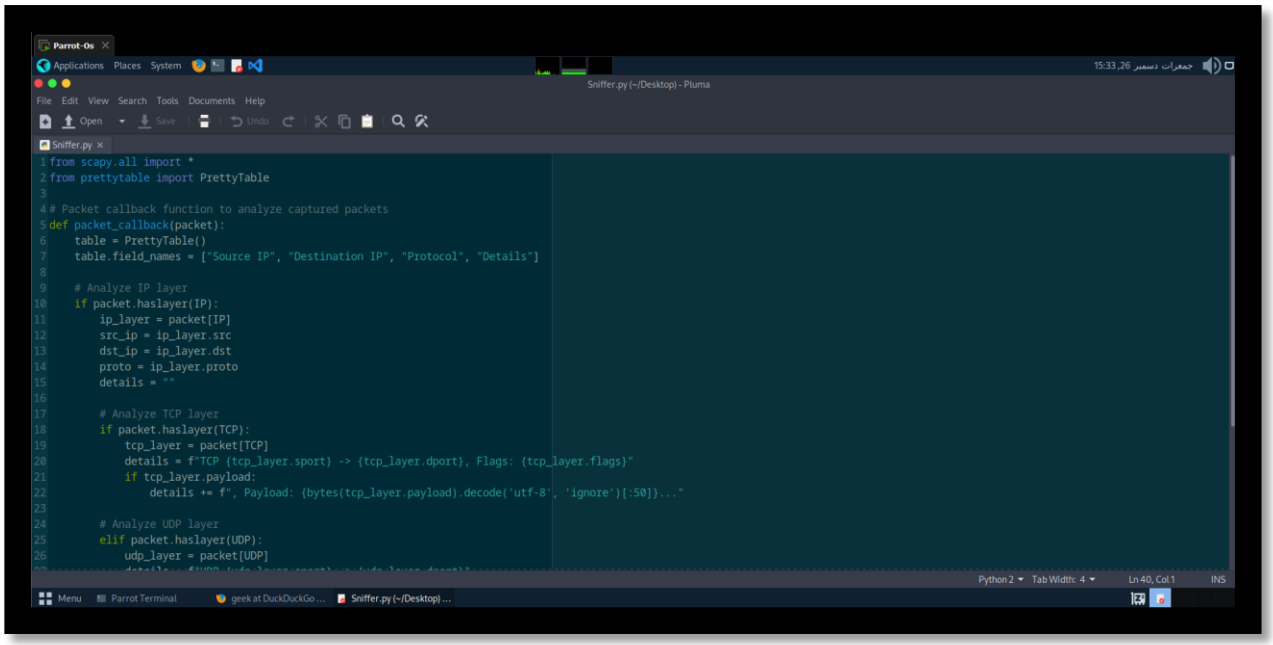
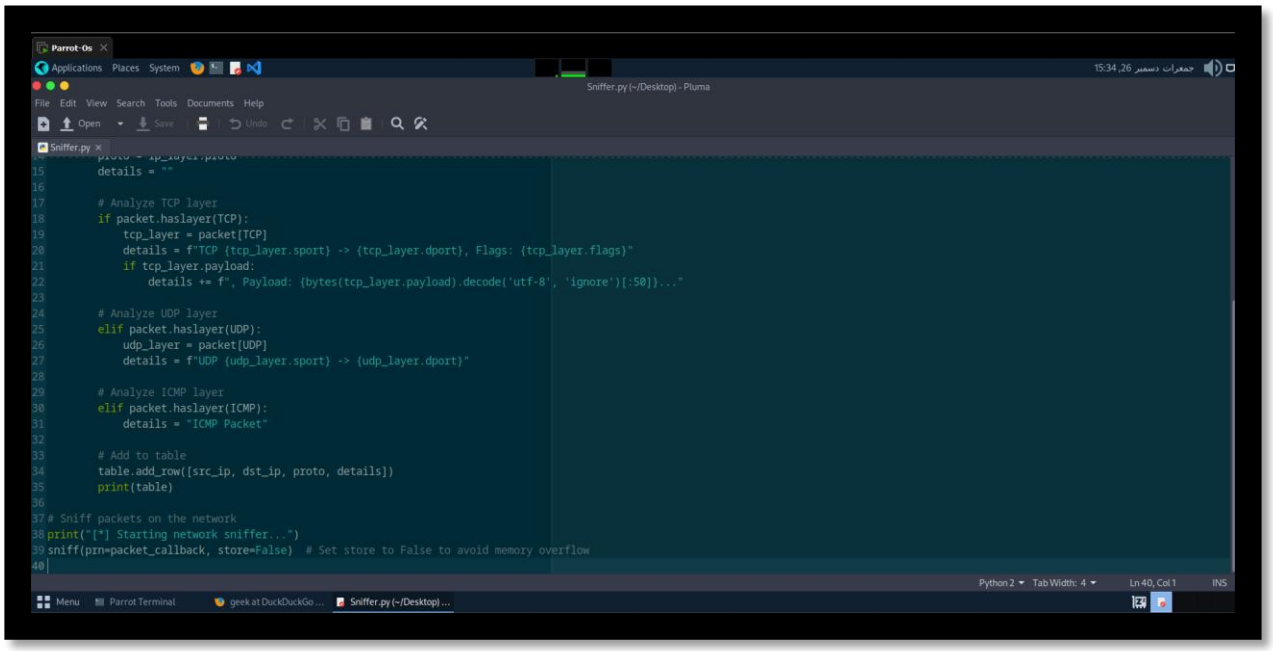
TASK

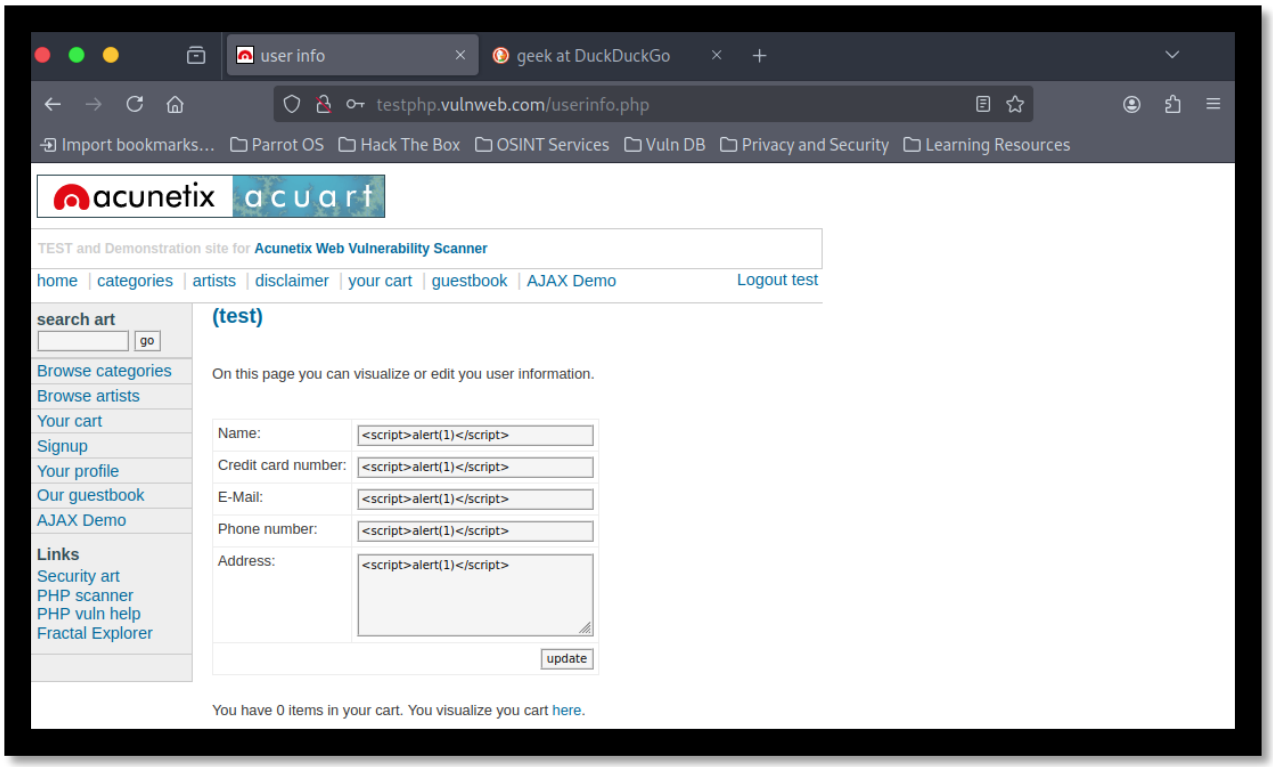
Build a network sniffer in Python that captures and analyzes network traffic. This project will help you understand how data flows on a network and how network packets are structured.

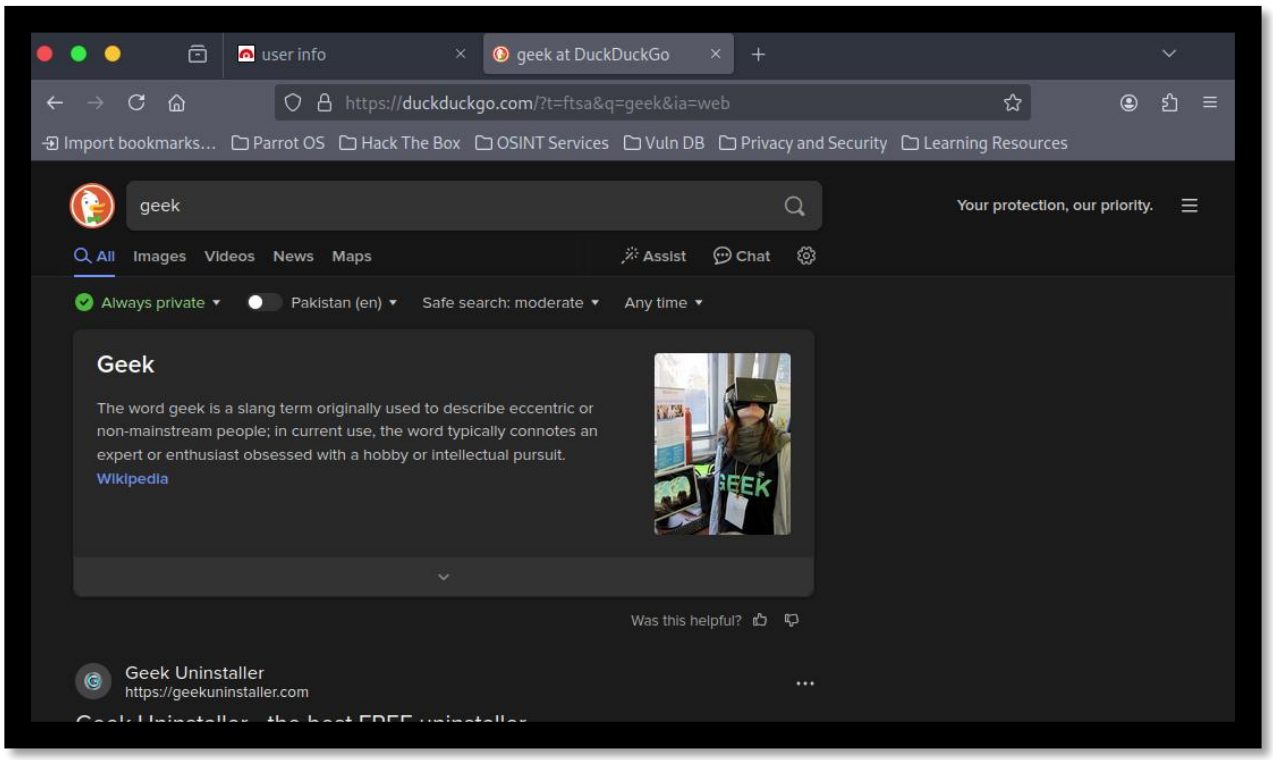
Code





Visited Website





Output

```
+----------------+----------------+----------+-----------------+
|   Source IP    | Destination IP | Protocol |     Details     |
+----------------+----------------+----------+-----------------+
| 192.168.10.137 |  192.168.10.2  |    17    | UDP 35092 -> 53 |
+----------------+----------------+----------+-----------------+
+----------------+----------------+----------+-----------------+
|   Source IP    | Destination IP | Protocol |     Details     |
+----------------+----------------+----------+-----------------+
| 192.168.10.137 |  192.168.10.2  |    17    | UDP 35092 -> 53 |
+----------------+----------------+----------+-----------------+
+---------------+----------------+----------+-----------------+
|  Source IP    | Destination IP | Protocol |     Details     |
+---------------+----------------+----------+-----------------+
| 192.168.10.2 | 192.168.10.137 |    17    | UDP 53 -> 35092 |
+---------------+----------------+----------+-----------------+
+---------------+----------------+----------+-----------------+
|  Source IP    | Destination IP | Protocol |     Details     |
+---------------+----------------+----------+-----------------+
| 192.168.10.2 | 192.168.10.137 |    17    | UDP 53 -> 35092 |
+---------------+----------------+----------+-----------------+
+-----------------+----------------+----------+----------------------------+
|   Source IP     | Destination IP | Protocol |          Details           |
+-----------------+----------------+----------+----------------------------+
| 192.168.10.137 |  20.204.6.105  |    6     | TCP 57176 -> 443, Flags: S |
+-----------------+----------------+----------+----------------------------+
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+----------------+----------------+----------+---------------------------+
| 192.168.10.137 |  20.204.6.105  |    6     | TCP 57188 -> 443, Flags: S |
+----------------+----------------+----------+---------------------------+
+----------------+----------------+----------+---------+
|   Source IP    | Destination IP | Protocol | Details |
+----------------+----------------+----------+---------+
| 192.168.10.137 | 20.204.244.192 |    6     |     TCP 57340 -> 443, Flags: PA, Payload: fsfy)Y
B'i]mVp...     | 6R+~<BvA3EГm,瓣c!G)+~S
+----------------+----------------+----------+---------+
+----------------+----------------+----------+----------------------------------------+
|   Source IP    | Destination IP | Protocol |                Details                 |
+----------------+----------------+----------+----------------------------------------+
| 20.204.244.192 | 192.168.10.137 |    6     | TCP 443 -> 57340, Flags: A, Payload: ... |
+----------------+----------------+----------+----------------------------------------+
+---------------+----------------+----------+----------------------------------------+
|  Source IP    | Destination IP | Protocol |                Details                 |
+---------------+----------------+----------+----------------------------------------+
| 20.204.6.105 | 192.168.10.137 |    6     | TCP 443 -> 57176, Flags: SA, Payload: ... |
+---------------+----------------+----------+----------------------------------------+
+----------------+----------------+----------+---------------------------+
|   Source IP    | Destination IP | Protocol |          Details          |
+----------------+----------------+----------+---------------------------+
| 192.168.10.137 |  20.204.6.105  |    6     | TCP 57176 -> 443, Flags: A |
+----------------+----------------+----------+---------------------------+
+----------------+----------------+----------+---------+
|   Source IP    | Destination IP | Protocol | Details |
+----------------+----------------+----------+---------+
| 192.168.10.137 |  20.204.6.105  |    6     |     TCP 57176 -> 443, Flags: PA, Payload: OU1uB/<Ad Dpg4G`LK&U)P"|t"+/...     |
+----------------+----------------+----------+---------+
```