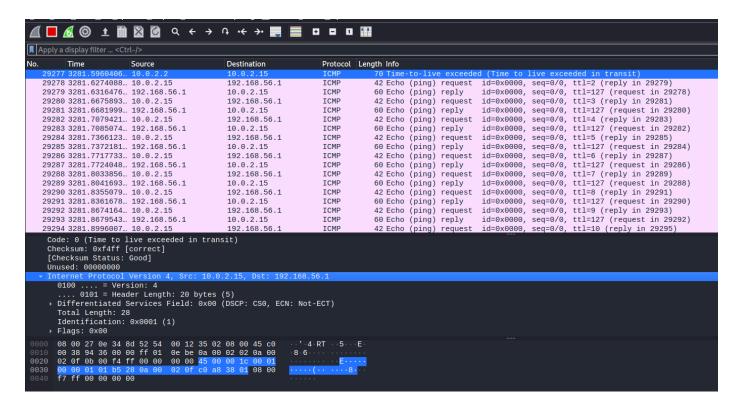
```
🍅 (no subject) - srivensrila... 刘 • tracerouticmp.py - De... 🙍 *eth0
                                                               • tracerouticmp.py - Desktop - Visual Studio Co
minal Help
  python
                 UDPPACKETCREATION.pv
                                            SENDUDPPACKET.pv
                                                                   PACKETCAPTURE.py
                                                                                          ud
   tracerouticmp.py > ...
         def traceroute(target_ip, max_hops=30, timeout=2):
                 packet = IP(dst=target ip, ttl=ttl) / ICMP()
     9
    10
                 # Send the packet and wait for a response
    11
                 reply = sr1(packet, timeout=timeout, verbose=0)
    12
    13
                 if reply is None:
                      print(f"{ttl}. No reply")
    14
    15
                      continue
    16
    17
                 if reply.type == 3: # Type 3 means "Destination Unreachable"
    18
                      print(f"{ttl}. Reached destination {reply.src}")
                      break
    19
                 elif reply.type == 11: # Type 11 means "Time Exceeded"
    20
    21
                     print(f"{ttl}. Hop {reply.src}")
                 else:
    22
                      print(f"{ttl}. Unexpected reply {reply.type} from {reply.src}")
    23
    24
            name == " main ":
    25
    26
             target = "192.168.56.1"
    27
             traceroute(target)
                     DEBUG CONSOLE
   PROBLEMS
                                    TERMINAL
             OUTPUT
                                              PORTS
   6. Unexpected reply 0 from 192.168.56.1
   7. Unexpected reply 0 from 192.168.56.1
   8. Unexpected reply 0 from 192.168.56.1
   9. Unexpected reply 0 from 192.168.56.1
   10. Unexpected reply 0 from 192.168.56.1
   11. Unexpected reply 0 from 192.168.56.1
   12. Unexpected reply 0 from 192.168.56.1
   13. Unexpected reply 0 from 192.168.56.1
   14. Unexpected reply 0 from 192.168.56.1
   15. Unexpected reply 0 from 192.168.56.1
   16. Unexpected reply 0 from 192.168.56.1
   17. Unexpected reply 0 from 192.168.56.1
   18. Unexpected reply 0 from 192.168.56.1
```



We can see that from the above wireshark requests and replays, the TTL is created.