

```
1  import socket
2
3  # Global Variables
4  s = None
5  host = None
6  port = None
7
8
9  # Create Socket
10 def socket_create():
11     global host
12     global port
13     global s
14     host = "localhost"
15     port = 1001
16
17     try:
18         s = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
19         s.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
20     except socket.error as msg:
21         print("Socket creation error: " + str(msg))
22
23
24 # UDP Client Protocol
25 def udp_client():
26     global host
27     global port
28     global s
29
30     while True:
31         message = input("Message: ")
32         if message == "quit":
33             break
34         else:
35             try:
36                 s.sendto(message.encode('utf-8'), (host, port))
37
38                 data, addr = s.recvfrom(2048)
39                 print("IP: " + addr[0] + " | Port: " + str(addr[1]))
40                 print("Message: " + str(data.decode('utf-8')))
41
42             except socket.error as msg:
43                 print(str(msg))
44
45     s.close()
46
47
48 # Main Function
49 if __name__ == "__main__":
50     # created socket
51     socket_create()
52     # udp client
53     udp_client()
54
55
```