```
2
3  import socket
4  from argparse import ArgumentParser
5
6  BUFSIZE = 4096
7
8  class EchoClient:
9    def __init__(self, host, port):
10     print('connecting to port {}'.format(port))
11     self.host = host
12     self.port = port
13
14     self.setup_socket()
15
16     self.talk()
17
18     self.sock.shutdown(1)
19     self.sock.close()
20     print('connection closed.')
21
22   def setup_socket(self):
23     self.sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
24     self.sock.connect((self.host, self.port))
25
26   def talk(self):
27     msg = input('')
28
29     while msg:
30       self.sock.send(bytes(msg, 'utf-8'))
31       data = self.sock.recv(BUFSIZE)
32       print(data.decode('utf-8'))
33       msg = input('')
34
35
36 def parse_args():
37   parser = ArgumentParser()
38   parser.add_argument('--host', type=str, default='localhost',
39                       help='specify a host to operate on (default: localhost)')
40   parser.add_argument('-p', '--port', type=int, default=9001,
41                       help='specify a port to operate on (default: 9001)')
42   args = parser.parse_args()
43   return (args.host, args.port)
44
45 if __name__ == '__main__':
46   (host, port) = parse_args()
47   EchoClient(host, port)
48
```