```
using System;
using System.Net;
using System.Net.Sockets;
using System. Text;
class BestUdpClient
 private byte[] data = new byte[1024];
 private static IPEndPoint sender = new IPEndPoint(IPAddress.Any, 0);
 private static EndPoint Remote = (EndPoint) sender;
 private static int size = 30;
  private static int AdvSndRcvData(Socket s, byte[] message,
           EndPoint rmtdevice)
  int recv = 0;
  int retry = 0;
  while (true)
     Console.WriteLine("Attempt #{0}", retry);
     try
     s.SendTo(message, message.Length, SocketFlags.None, rmtdevice);
     data = new byte[size];
     recv = s.ReceiveFrom(data, ref Remote);
     } catch (SocketException e)
      if (e.ErrorCode == 10054)
        recv = 0;
      else if (e.ErrorCode == 10040)
       Console.WriteLine("Error receiving packet");
        size += 10;
        recv = 0;
     if (recv > 0)
     return recv;
     } else
     retry++;
      if (retry > 4)
       return 0;
  public static void Main()
  string input, stringData;
   int recv;
   IPEndPoint ipep = new IPEndPoint(
           IPAddress.Parse("127.0.0.1"), 9050);
```

```
Socket server = new Socket(AddressFamily.InterNetwork,
        SocketType.Dgram, ProtocolType.Udp);
int sockopt = (int)server.GetSocketOption(SocketOptionLevel.Socket,
 SocketOptionName.ReceiveTimeout);
Console.WriteLine("Default timeout: {0}", sockopt);
server.SetSocketOption(SocketOptionLevel.Socket,
 SocketOptionName.ReceiveTimeout, 3000);
sockopt = (int)server.GetSocketOption(SocketOptionLevel.Socket,
 SocketOptionName.ReceiveTimeout);
Console.WriteLine("New timeout: {0}", sockopt);
string welcome = "Hello, are you there?";
data = Encoding.ASCII.GetBytes(welcome);
recv = AdvSndRcvData(server, data, ipep);
if (recv > 0)
  stringData = Encoding.ASCII.GetString(data, 0, recv);
 Console.WriteLine(stringData);
} else
{
  Console.WriteLine("Unable to communicate with remote host");
 return;
while(true)
  input = Console.ReadLine();
 if (input == "exit")
  break;
  recv = AdvSndRcvData(server, Encoding.ASCII.GetBytes(input), ipep);
  if (recv > 0)
  stringData = Encoding.ASCII.GetString(data, 0, recv);
  Console.WriteLine(stringData);
  } else
   Console.WriteLine("Did not receive an answer");
Console.WriteLine("Stopping client");
server.Close();
```

}