Lawrence Hua LHUA Lhua@andrew.cmu.edu Project 2

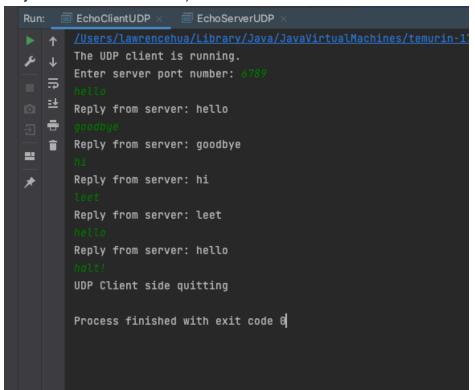
#### Project2Task0Client)

```
public class EchoClientUDP {
          String nextLine;
          BufferedReader typed = new BufferedReader(new
InputStreamReader(System.in));
          while ((nextLine = typed.readLine()) != null) {
               if (nextLine.equals("halt!")) {
                   byte[] m = nextLine.getBytes();
aHost, serverPort);
serverPort);
buffer.length);
               aSocket.receive(reply);
reply.getLength());
```

#### Project2Task0Server)

```
ublic class EchoServerUDP {
          BufferedReader reader = new BufferedReader(new
InputStreamReader(System.in));
          aSocket = new DatagramSocket(serverPort);
              System.arraycopy(request.getData(), 0, requestData, 0,
               String requestString = new String(requestData);
```

#### Project2Task0ClientConsole)



# Project2Task0ServerConsole)

```
Run: EchoClientUDP × EchoServerUDP ×

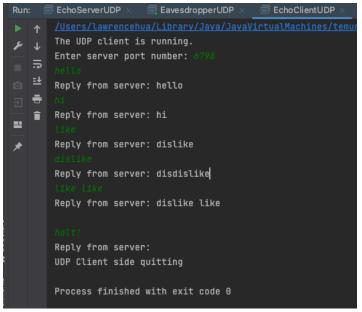
// Sers/Lawrencehua/Library/Java/JavaVirtualMachines/tem
The UDP server is running.
Enter server port number to listen on: 6789
Echoing: hello
Echoing: goodbye
Echoing: hi
Echoing: leet
Echoing: hello
Echoing: halt!
UDP Server side quitting

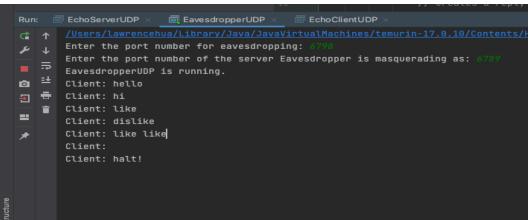
Process finished with exit code 0
```

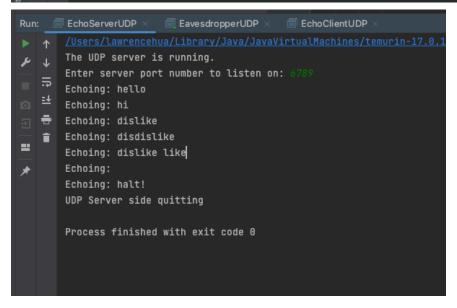
# Project2Task1 EavesdropperUDP)

```
buffer.length);
               String received = new String(request.getData(), 0,
request.getLength());
                   received = received.replaceFirst("like", "dislike");
               InetAddress aHost = InetAddress.getByName(args[0]);
               DatagramPacket responseToServer = new
DatagramPacket(received.getBytes(), received.getBytes().length,aHost ,
serverPort);
              DatagramPacket serverResponse = new DatagramPacket (buffer,
buffer.length);
              serverSocket.receive(serverResponse);
              DatagramPacket responseToClient = new
DatagramPacket(serverResponse.getData(), serverResponse.getLength(),
request.getAddress(), request.getPort());
              buffer = new byte[1000];
           if (serverSocket != null) serverSocket.close();
```

# Project2Task1ThreeConsoles)







#### Project2Task2Client)

```
import java.io.BufferedReader;
public class AddingClientUDP {
               String message = String.valueOf(num);
sendData.length, aHost, i);
               aSocket.send(sendPacket);
               aSocket.receive(receivePacket);
```

#### Project2Task2Server)

```
import java.io.BufferedReader;
```

```
import java.io.IOException;
import java.io.InputStreamReader;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.SocketException;

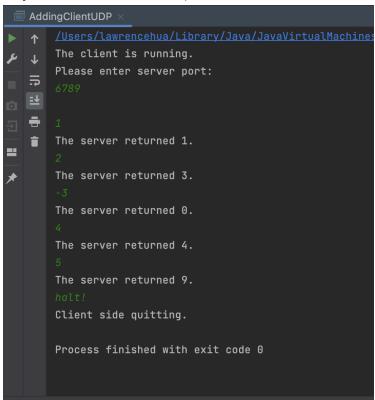
public class AddingServerUDP {
   public static int sum = 0;

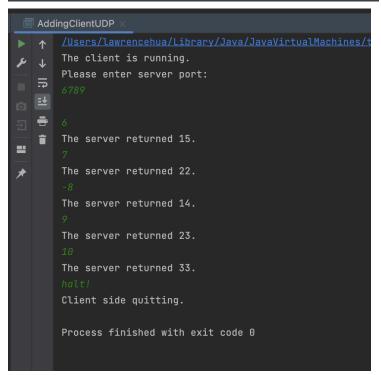
   public static int add(int num) {
        sum += num;
        return sum;
   }

   public static void main(String args[]) {
        DatagramSocket aSocket = null;
   }
}
```

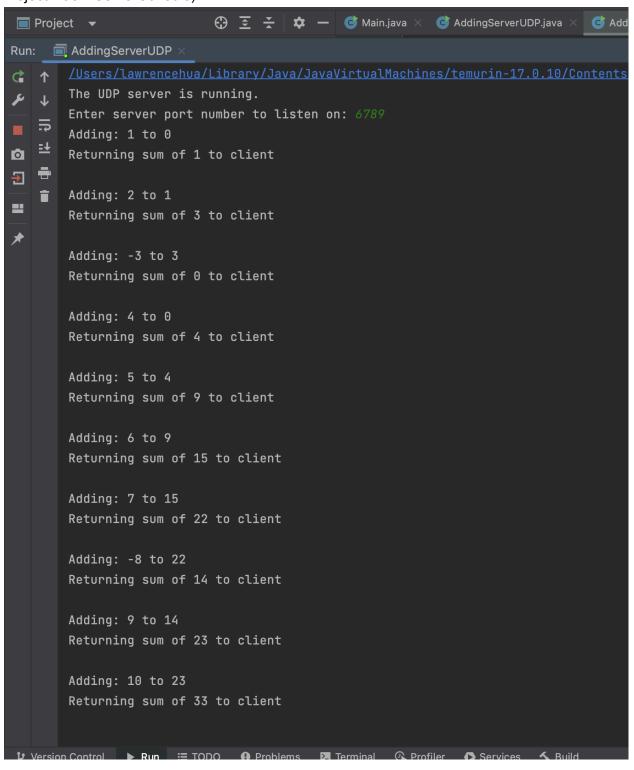
```
InputStreamReader(System.in));
          int serverPort = Integer.parseInt(reader.readLine()); // Pro
          DatagramPacket request = new DatagramPacket(buffer, buffer.length);
              System.arraycopy(request.getData(), 0, requestData, 0,
                  aSocket.send(reply);
              byte[] replyData = replyString.getBytes();
          System.out.println("Socket: " + e.getMessage());
          if (aSocket != null) aSocket.close();
```

# Project2Task2ClientConsole)





# Project2Task2ServerConsole)



#### Project2Task3Client)

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
InputStreamReader(System.in));
           System.out.println();
```

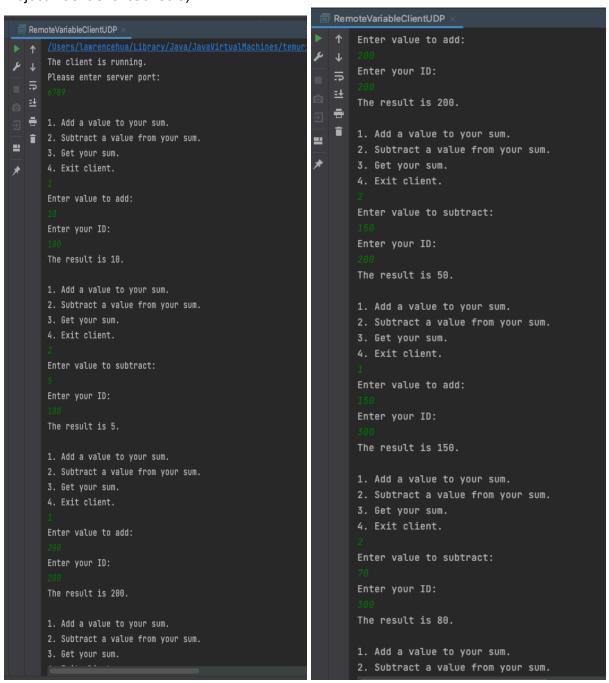
```
add(serverPort, message);
  public static void add(int i, String message) {
           InetAddress aHost = InetAddress.getLocalHost();
          byte[] sendData = message.getBytes();
sendData.length, aHost, i);
          aSocket.send(sendPacket);
          byte[] receiveData = new byte[1024];
receiveData.length);
           aSocket.receive(receivePacket);
receivePacket.getLength());
```

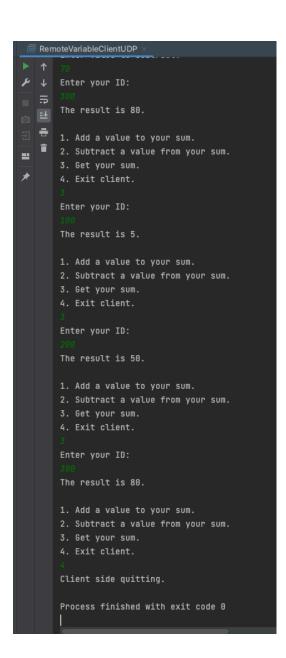
#### Project2Task3Server)

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.net.DatagramSocket;
import java.util.Map;
public class RemoteVariableServerUDP {
InputStreamReader(System.in));
           aSocket = new DatagramSocket(serverPort);
               aSocket.receive(request);
request.getLength());
               switch (operation) {
get(id));
                       System.out.println("Subtracting: " + value + " to " +
get(id));
```

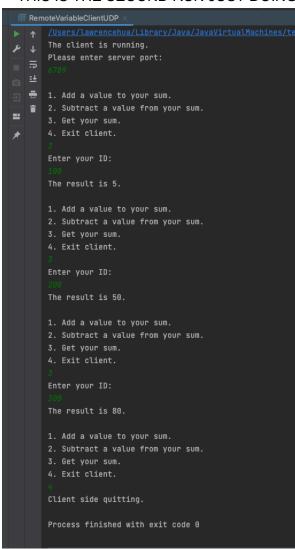
```
response.length(),
```

# Project2Task3ClientConsole)





\*\*\*THIS IS THE SECOND RUN JUST DOING GET ON ID'S 100, 200, 300\*\*\*\*



# Project2Task3ServerConsole)

