Project 02

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Link to Project: https://github.com/Juanchiselo/CS380/tree/master/Projects/Project%2002

Java Code

PhysLayerClient.java

```
ackage Project02;
```

ListenerThread.java

```
ackage Project02;
             final int PREAMBLE_SIZE = 64;
final int DATA_SIZE = 32;
byte[] data;
       * on an average of the received high and low signals.

* @param PREAMBLE_SIZE - The size of the preamble.

* @return - Returns the baseline.
```

```
hashMap.put("01001", "0000");
hashMap.put("10100", "0010");
hashMap.put("10101", "0011");
hashMap.put("01010", "0100");
hashMap.put("01011", "0101");
hashMap.put("01110", "0110");
          hashMap.put("01110", "0110");
hashMap.put("01111", "0111");
hashMap.put("10010", "1000");
hashMap.put("10011", "1001");
hashMap.put("10110", "1010");
hashMap.put("10111", "1011");
hashMap.put("11011", "1100");
hashMap.put("11011", "1101");
hashMap.put("11101", "1111");
hashMap.put("111101", "1111");
* Cparam DATA SIZE - The size of the data to be received.
* Cparam baseline - The baseline.
```

```
{
    firstNibble = receivedData[j];
    secondNibble = receivedData[j] + 1];
    completeByteString = firstNibble + secondNibble;
    completeByte = Integer.parseInt(completeByteString, 2);
    System.out.print(Integer.toHexString(completeByte).toUpperCase());
    data[i] = (byte) completeByte;
}

catch(Exception e)
{
    System.err.println("ERROR: " + e.getMessage());
}

return data;
}

/**
    * Sends the response to the server.
    * @param response - The response to be sent to the server.
    */
private void respondToServer(byte[] response)
{
    try
    {
        socket.getOutputStream().write(response);
        int serverResponse;
        if((serverResponse) = socket.getInputStream().read()) == 1)
            System.out.println("Response good.");
        else
            System.out.println("Bad response. Server returned " + serverResponse);
}
catch (IOException e)
{
        System.err.println("ERROR: " + e.getMessage());
        }
}
```