NIM : 222212738

Kelas / No : 2KS1 / 25

MODUL 14 PEMROGRAMAN BERORIENTASI OBJEK NETWORKING BAGIAN 2

1. Source Code

Github: https://github.com/afrzl/Pemrograman-Berorientasi-

Objek/tree/main/Week%2014/Praktikum/Latihan%20Server/src

a. LatihanServer.java

b. LatihanClient.java

```
import java.io.BufferedOutputStream;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.ObjectOutputStream;
import java.io.PrintWriter;
import java.net.Socket;
import java.util.logging.Level;
import java.util.logging.Logger;
```

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```
public static void main(String args[]){
        int portNumber = 4444;
                Socket echoSocket = new Socket(hostName,
portNumber);
                BufferedOutputStream bos = new
BufferedOutputStream(echoSocket.getOutputStream());
                ObjectOutputStream oos = new
ObjectOutputStream(bos);
                BufferedReader in = new BufferedReader(new
InputStreamReader(echoSocket.getInputStream()));
InputStreamReader(System.in));
            String msg;
            while((msg = stdIn.readLine()) != null){
                oos.writeObject(new Pesan("Budi", msg));
                System.out.println("Client receive: "+
                if (msg.equalsIgnoreCase("exit")) break;
        } catch (IOException ex) {
Logger.getLogger(LatihanClient.class.getName()).log(Level.SEVERE,
```

c. Pesan.java

```
import java.io.Serializable;

public class Pesan implements Serializable {
    private String nama;
    private String pesan;

public Pesan(String nama, String pesan) {
        this.nama = nama;
        this.pesan = pesan;
    }

    @Override
    public String toString() {
        return "[" + nama + "]" + pesan;
    }

    public String getNama() {
        return nama;
    }

    public void setNama(String nama) {
```

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```
this.nama = nama;
}

public String getPesan() {
    return pesan;
}

public void setPesan(String pesan) {
    this.pesan = pesan;
}
}
```

d. ServerThread.java

```
import java.io.BufferedInputStream;
import java.io.ObjectInputStream;
import java.io.PrintWriter;
import java.net.Socket;
import java.util.logging.Level;
import java.util.logging.Level;
import java.util.logging.Logger;
PrintWriter(clientSocket.getOutputStream(), true);
                  BufferedInputStream bis = new
BufferedInputStream(clientSocket.getInputStream());
                  ObjectInputStream ois = new
ObjectInputStream(bis);){
              Pesan pesan;
              while((pesan = (Pesan) ois.readObject())!=null){
                  System.out.println("Server Receive: " +
pesan.toString());
                  out.println("Pesan Diterima");
                   if (pesan.getPesan().equalsIgnoreCase("exit"))
         } catch (IOException ex) {
Logger.getLogger(ServerThread.class.getName()).log(Level.SEVERE,
null, ex);
         } catch (ClassNotFoundException ex) {
Logger.getLogger(ServerThread.class.getName()).log(Level.SEVERE,
                       clientSocket.close();
```

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```
} catch (IOException ex) {

Logger.getLogger(ServerThread.class.getName()).log(Level.SEVERE,
null, ex);

}

}
}
}
```

2. Output

a. Server

```
Server Receive: [Andi]Halo
Server Receive: [Andi]Apa kabar?
Server Receive: [Budi]Hai
Server Receive: [Budi]Saya Budi
Server Receive: [Andi]Andi
Server Receive: [Andi]exit
Server Receive: [Budi]exit
```

b. Client 1 (Andi)

```
Tingkat 2\Pemrograman Berorienta
Halo
Client receive: Pesan Diterima
Apa kabar?
Client receive: Pesan Diterima
Andi
Client receive: Pesan Diterima
exit
Client receive: Pesan Diterima
```

c. Client 2 (Budi)

```
Tingkat 2\Pemrograman Berorient
Hai
Client receive: Pesan Diterima
Saya Budi
Client receive: Pesan Diterima
exit
Client receive: Pesan Diterima
```