

Panel 3

The Session Layer

Establishes, maintains, and synchronizes interactions

Dialog Control (full, half duplex, simplex)

Synchronization: adds checkpoints every 1KB
during data transfer of large
files

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Panel 4

The Presentation Layer

Translation: encode/decode data types into bit patterns

Encryption: encrypt/decrypt data streams

Compression: important for video + audio data

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Panel 7

Homework: Write a program that
grabs data from a web server.

Variations: - download web site
- link checker

Java classes:

java.io.*

java.net.* Socket

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Panel 8

```
import java.io.*;
import java.net.*;

public class WebSampler
{
    public static void main(String args[])
    {
        String host = "";
        int port = 80;

        if (args.length == 2)
        {
            host = args[0];
            port = Integer.parseInt(args[1]);
        }
        else
        {
            System.out.println("Wrong use");
            System.exit(0);
        }

        try
        {
            Socket sock = new Socket(host, port);
            System.out.println("Connected to: " + host);
            System.out.println(" on port " + port);

            sock.close();
        }
        catch (Exception ex)
        {
            System.err.println("Error: " + ex.getMessage());
        }
    }
}
```

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