

## Web Page Server :

```
import java.io.*;
import java.net.*;
import javax.imageio.ImageIO;
import java.awt.image.BufferedImage;
import javax.swing.*;
public class WebPage_Server
{
    public static void main(String args[]) throws Exception
    {
        ServerSocket server = null;
        Socket socket;
        server = new ServerSocket(4000);
        System.out.println("Server Waiting for image");
        while (true) {
            socket = server.accept();
            System.out.println("Client connected.");
            InputStream in = socket.getInputStream();
            DataInputStream dis = new DataInputStream(in);
            int len = dis.readInt();
            System.out.println("Image Size: " + len / 1024 + "KB");
            byte[] data = new byte[len];
            dis.readFully(data);
            ByteArrayInputStream ian = new ByteArrayInputStream(data);
            BufferedImage blImage = ImageIO.read(ian);
            JFrame f = new JFrame("Server");
            ImageIcon icon = new ImageIcon(blImage);
            JLabel label = new JLabel(icon);
            f.add(label);
            f.pack();
            f.setVisible(true);
            OutputStream out = socket.getOutputStream();
            PrintWriter pw = new PrintWriter(out, true);
            pw.println("Image received successfully.");
            out.close();
            dis.close();
            in.close();
            socket.close();
        }
    }
}
```

## Web Page Client :

```
import java.io.*;
import java.net.*;
import javax.imageio.ImageIO;
import java.awt.image.BufferedImage;
public class WebPage_Client
{
    public static void main(String args[]) throws Exception
    {
        Socket soc;
        BufferedImage img = null;
        soc = new Socket("localhost", 4000);
        System.out.println("Client is running.");
        try {
            System.out.println("Reading image from disk.");
            String path = "C:\\Users\\poove\\OneDrive\\Desktop\\NC_Output\\WebPage_Image.jpg";
            img = ImageIO.read(new File(path));
            ByteArrayOutputStream baos = new ByteArrayOutputStream();
            ImageIO.write(img, "jpg", baos);
            baos.flush();
            byte[] bytes = baos.toByteArray();
            baos.close();
            System.out.println("Sending image to server.");
            OutputStream out = soc.getOutputStream();
            DataOutputStream dos = new DataOutputStream(out);
            dos.writeInt(bytes.length);
            dos.write(bytes, 0, bytes.length);
            System.out.println("Image sent to server.");
            InputStream in = soc.getInputStream();
            BufferedReader br = new BufferedReader(new InputStreamReader(in));
            String response = br.readLine();
            System.out.println("Server response: " + response);
            dos.close();
            out.close();
        }
        catch (IOException e) {
            e.printStackTrace();
        }
        finally {
            soc.close();
        }
    }
}
```

```
Command Prompt - java Wel × + ▾  
C:\Users\poove\OneDrive\Desktop\NC_Output>java WebPage_Server  
Server Waiting for image  
Client connected.  
Image Size: 429KB
```

```
Command Prompt × + ▾  
C:\Users\poove\OneDrive\Desktop\NC_Output>java WebPage_Client  
Client is running.  
Reading image from disk.  
Sending image to server.  
Image sent to server.  
Server response: Image received successfully.  
  
C:\Users\poove\OneDrive\Desktop\NC_Output>
```

