

FileServer.java:

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

public class FileServer {
    public static void main(String[] args) {
        int port = 5000;
        String saveFile = "received_file.txt";
        try (ServerSocket serverSocket = new ServerSocket(port)) {
            System.out.println("Server started. Waiting for client on port " + port + "..");
            Socket socket = serverSocket.accept();
            System.out.println("Client connected: " + socket.getInetAddress());
            InputStream in = socket.getInputStream();
            FileOutputStream fileOut = new FileOutputStream(saveFile);
            byte[] buffer = new byte[4096];
            int bytesRead;
            System.out.println("Receiving file...");
            while ((bytesRead = in.read(buffer)) != -1) {
                fileOut.write(buffer, 0, bytesRead);
            }
            System.out.println("File received and saved as " + saveFile);
            fileOut.close();
            socket.close();
            System.out.println("Connection closed.");
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

FileClient.java:

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

public class FileClient {
    public static void main(String[] args) {
        String serverAddress = "localhost";
        int port = 5000;
        String filePath = "file_to_send.txt";
        try (Socket socket = new Socket(serverAddress, port)) {
            System.out.println("Connected to server at " + serverAddress + ":" + port);
            OutputStream out = socket.getOutputStream();
            FileInputStream fileIn = new FileInputStream(filePath);
            byte[] buffer = new byte[4096];
            int bytesRead;
            System.out.println("Sending file...");
            while ((bytesRead = fileIn.read(buffer)) != -1) {
                out.write(buffer, 0, bytesRead);
            }
            System.out.println("File sent successfully!");
            fileIn.close();
            socket.close();
            System.out.println("Connection closed.");
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

Output:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Sandhiya> cd "C:\Users\Sandhiya\Downloads"
PS C:\Users\Sandhiya\Downloads> javac FileServer.java
PS C:\Users\Sandhiya\Downloads> javac FileClient.java
PS C:\Users\Sandhiya\Downloads> java FileServer
Server started. Waiting for client on port 5000...
Client connected: /127.0.0.1
Receiving file...
File received and saved as received_file.txt
Connection closed.
PS C:\Users\Sandhiya\Downloads> |
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Sandhiya> cd "C:\Users\Sandhiya\Downloads"
PS C:\Users\Sandhiya\Downloads> java FileClient
Connected to server at localhost:5000
Sending file...
File sent successfully!
Connection closed.
PS C:\Users\Sandhiya\Downloads> |
```