

PRACTICAL-2

AIM: Implement TCP Server for transferring files using Socket and ServerSocket.

PROGRAM:

- Server:

```
import java.io.*;
import java.net.*;
class server_soc
{
    public static void main(String[] args) throws Exception
    {
        ServerSocket ss=new ServerSocket(7777);
        Socket s=ss.accept();
        System.out.println("Connected..");
        FileInputStream fin=new FileInputStream("Send.txt");
        DataOutputStream dout=new DataOutputStream(s.getOutputStream());
        int r;
        while((r=fin.read())!=-1)
        {
            dout.write(r);
        }
        System.out.println("File Transfer Completed");
        s.close();
        ss.close();
    }
}
```

- Client:

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

public class client_soc
{
    public static void main(String[] args) throws Exception
    {
        Socket s=new Socket("127.0.0.1",7777);
        if(s.isConnected())
        {
            System.out.println("Connected to server");
        }

        FileOutputStream fout=new FileOutputStream("received.txt");
        DataInputStream din=new DataInputStream(s.getInputStream());
        int r;
        while((r=din.read())!=-1)
```

```

        {
            fout.write((char)r);
        }
        s.close();
    }
}

```

OUTPUT:

```

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C:\Users\bhunit>cd Desktop

C:\Users\bhunit\Desktop>javac server_soc.java

C:\Users\bhunit\Desktop>java server_soc
Connected..
Exception in thread "main" java.io.FileNotFoundException: Send.txt (The system cannot find the file specified)
    at java.io.FileInputStream.open0(Native Method)
    at java.io.FileInputStream.open(Unknown Source)
    at java.io.FileInputStream.<init>(Unknown Source)
    at java.io.FileInputStream.<init>(Unknown Source)
    at server_soc.main(server_soc.java:11)

C:\Users\bhunit\Desktop>javac server_soc.java

C:\Users\bhunit\Desktop>java server_soc
Connected..
File Transfer Completed

C:\Users\bhunit\Desktop>_

```

```

Microsoft Windows [Version 10.0.18362.592]
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C:\Users\bhunit>cd Desktop

C:\Users\bhunit\Desktop>javac client_soc.java

C:\Users\bhunit\Desktop>java client_soc
Connected to server
Exception in thread "main" java.net.SocketException: Connection reset
    at java.net.SocketInputStream.read(Unknown Source)
    at java.net.SocketInputStream.read(Unknown Source)
    at java.net.SocketInputStream.read(Unknown Source)
    at java.io.FilterInputStream.read(Unknown Source)
    at client_soc.main(client_soc.java:17)

C:\Users\bhunit\Desktop>javac client_soc.java

C:\Users\bhunit\Desktop>java client_soc
Connected to server

C:\Users\bhunit\Desktop>_

```