Practical No.: 16

Title: Write a Program to implement chat server using ServerSocket &Socket class.

- **Server Side Program**

```
package serversocketex;
import java.net.*;
import java.io.*;
public class ServerSocketEx
{
public static void main(String[] args) throws IOException
{
ServerSocket SS=new ServerSocket(1234);
Socket S=SS.accept();
OutputStream o=S.getOutputStream();
DataOutputStream dos=new DataOutputStream(o);
InputStream i=S.getInputStream();
DataInputStream dis=new DataInputStream(i);
String str=dis.readUTF();
System.out.println(str);
dos.writeUTF("Good Morning! Client");
System.out.println("Respose send to the Client Successfully...");
dos.close();
SS.close();
}
}
```

Output:

Good Morning! Server...

Respose send to the Client Successfully...

- **Client Side Program:**

```
package socketex;
import java.net.*;
import java.io.*;
public class SocketEx
{
public static void main(String[] args) throws IOException
{
```

```
Socket S=new Socket("localhost",1234);
InputStream i=S.getInputStream();



DataInputStream dis=new DataInputStream(i);
OutputStream o=S.getOutputStream();
DataOutputStream dos=new DataOutputStream(o);
dos.writeUTF("Good Morning! Server...");
String str1=dis.readUTF();
System.out.println(str1);
System.out.println("Respose Recieved From the Server Successfully...");
dis.close();
S.close();
}

}
```

Output:

Good Morning! Client

Respose Recieved From the Server Successfully...