Main File:

```java
package osi.model;

import java.util.Scanner;

/**
 *
 * @author Nur
 */
public class main {

    public static void main(String[] args) {
        String userInpur;
        System.out.println("Enter Your String: ");
        Scanner scan = new Scanner(System.in);
        userInpur = scan.nextLine();
        sender snd = new sender();


        snd.toSend(userInpur);
    }
}
```

```java
package osi.model;

public class rec {

    String recv;

    private void PhysicallyLayer(){

        System.out.println("Message Rec From Transmit End "+recv);

    }

    private void DatalinkLayer(){

        recv=recv.replace("DH","");

        System.out.println("DataLink Layer "+recv);

    }

    private void NetworkLayer(){

        recv=recv.replace("NH","");

        System.out.println("Network Layer "+recv);

    }

    private void TransforLayer(){

        recv=recv.replace("TH","");

        System.out.println("Transfor Layer "+recv);

    }

    private void SessionLayer(){

        recv=recv.replace("SH","");

        System.out.println("Session Layer "+recv);

    }

    private void PresentationLayer(){

        recv=recv.replace("PH","");

        System.out.println("PresentationLayer "+recv);

    }
```

Receiver File

```java
    private void ApplicationLayer(){

        recv=recv.replace("AH","");

        System.out.println("ApplicationLayer "+recv);

        System.out.println("\n\n Received Mess: "+recv);

    }

    public void toRecv(String s){

        recv=s;

        PhysicallyLayer();

        DatalinkLayer();

        NetworkLayer();

        TransforLayer();

        SessionLayer();

        PresentationLayer();

        ApplicationLayer();

    }

}
```

```java
package osi.model;

import javax.sound.midi.Receiver;

public class sender {

    String msg;

    private void ApplicationLayer(){

        msg="AH "+msg;

        System.out.println("Application Layer: "+msg);

    }

    private void PresentationLayer(){

        msg="PS "+msg;

        System.out.println("Presentation Layer: "+msg);

    }

    private void SessionLayer(){

        msg="SS "+msg;

        System.out.println("Session Layer: "+msg);

    }

    private void TransforLayer(){

        msg="TF "+msg;

        System.out.println("Transfor Layer: "+msg);

    }

    private void NetworkLayer(){

        msg="NT "+msg;

        System.out.println("Network Layer: "+msg);

    }

    private void DatalinkLayer(){

        msg="DH "+msg;

        System.out.println("Data Layer: "+msg);

    }

    private void PhysicallyLayer(){

        System.out.println("Mssege Transmitted to Receverd");

    }

    public void toSend(String s){

        msg=s;

        PresentationLayer();

        SessionLayer();

        TransforLayer();

        NetworkLayer();

        DatalinkLayer();

        PhysicallyLayer();

        rec recv = new rec();

        recv.toRecv(msg);

    }

}
```
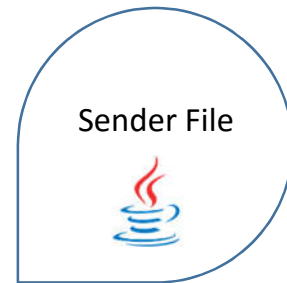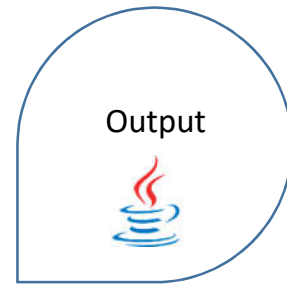
Sender File

Enter Your String:

Bangladesh

Presentation Layer: PS Bangladesh

Session Layer: SS PS Bangladesh

Transfor Layer: TF SS PS Bangladesh

Network Layer: NT TF SS PS Bangladesh

Data Layer: DH NT TF SS PS Bangladesh

Mssege Transmitted to Receverd

Message Rec From Transmit End DH NT TF SS PS Bangladesh

DataLink Layer NT TF SS PS Bangladesh

Network Layer NT TF SS PS Bangladesh

Transfor Layer NT TF SS PS Bangladesh

Session Layer NT TF SS PS Bangladesh

PresentationLayer NT TF SS PS Bangladesh

ApplicationLayer NT TF SS PS Bangladesh