```java
 1 package smtp;
 2
 3 import java.io.BufferedReader;
 4 import java.io.File;
 5 import java.io.FileInputStream;
 6 import java.io.FileReader;
 7 import java.io.IOException;
 8 import java.io.InputStreamReader;
 9 import java.io.PrintWriter;
10 import static java.lang.System.exit;
11 import java.net.InetAddress;
12 import java.net.InetSocketAddress;
13 import java.net.Socket;
14 import java.net.UnknownHostException;
15 import java.util.Base64;
16 import java.util.Scanner;
17
18 /**
19  *
20  * @author Jahin
21  */
22 public class SMTP {
23
24     public static void main(String[] args) throws UnknownHostException, IOException {
25         BufferedReader br;
26         Scanner sc = new Scanner(System.in);
27         String mailServer = "smtp.sendgrid.net";
28         System.out.println("Connecting to " + mailServer);
29         InetAddress mailHost = InetAddress.getByName(mailServer);
30         InetAddress localHost = InetAddress.getLocalHost();
31         Socket smtpSocket = new Socket();
32         smtpSocket.connect(new InetSocketAddress(mailHost, 587),20000);
33         BufferedReader in =  new BufferedReader(new InputStreamReader(smtpSocket.getInputStream()));
34         PrintWriter pr = new PrintWriter(smtpSocket.getOutputStream(),true);
35         String initialID = in.readLine();
36         System.out.println(initialID);
37         System.out.println("Saying HELLO to Server");
38         pr.println("HELO "+localHost.getHostName());
39         pr.flush();
40         String welcome = in.readLine();
41         System.out.println(welcome);
42         if(welcome.charAt(0) == '5' || welcome.charAt(0) == '4'){
43             System.out.println("Errorn Connecting");
44             exit(1);
45         }
46         // TODO code application logic here
47
48         //Authentication
49         pr.println("AUTH LOGIN\n" +
50                     "SmFoaW45OQ==\n" +
51                     "amFoaW4xMjM0");
52         pr.flush();
53         welcome = in.readLine();
54         System.out.println(welcome);
55         welcome = in.readLine();
56         System.out.println(welcome);
57         welcome = in.readLine();
58         System.out.println(welcome);
59
60         if(welcome.charAt(0) == '5' || welcome.charAt(0) == '4'){
61             System.out.println("Errorn Authenticating");
62             exit(1);
63         }
64
65         br = new BufferedReader(new FileReader("setup.txt"));
66
67         System.out.print("Mail From: ");
68         String st = br.readLine();
69         //String st = "1505065.mrrj@ugrad.cse.buet.ac.bd";
70         pr.println("MAIL FROM: <" + st + ">");
71         pr.flush();
```

```java
 72            welcome = in.readLine();
 73            System.out.println(welcome);
 74            if(welcome.charAt(0) == '5' || welcome.charAt(0) == '4'){
 75                System.out.println("Errorn in sender mail address");
 76                exit(1);
 77            }
 78            System.out.print("Number of Recipiant: ");
 79            int n = Integer.parseInt(br.readLine());
 80            String[] rcpt = new String[100];
 81            for(int i = 0; i < n; i++){
 82                rcpt[i] = br.readLine();
 83                pr.println("RCPT TO: <" + rcpt[i] + ">");
 84                pr.flush();
 85                welcome = in.readLine();
 86                System.out.println(welcome);
 87                if(welcome.charAt(0) == '5' || welcome.charAt(0) == '4'){
 88                    System.out.println("Errorn in reciever mail address");
 89                    exit(1);
 90                }
 91            }
 92
 93            pr.println("DATA");
 94            pr.flush();
 95            welcome = in.readLine();
 96            System.out.println(welcome);
 97            if(welcome.charAt(0) == '5' || welcome.charAt(0) == '4'){
 98                System.out.println("Refused to read data");
 99                exit(1);
100            }
101
102            //Mail data starts here
103            String line;
104            br = new BufferedReader(new FileReader("mail1.txt"));
105            String mail = "From: <"+st+">\nTo: ";
106            for(int i = 0; i < n; i++){
107                mail+="<" + rcpt[i] + "> ";
108            }
109            System.out.print("Subject: ");
110            mail += "\nSubject: " + br.readLine();
111            mail += "\nMIME-Version: 1.0\n" +
112                    "Content-Type: multipart/mixed; boundary=sep\n" +
113                    "\n" +
114                    "--sep\n" +
115                    "Content-type: text/plain; charset=us-ascii \n\n\n";
116
117            line =  br.readLine();
118            while(!line.equals(".")){
119                mail +=line+"\n";
120                line = br.readLine();
121            }
122
123            //Attachment is attached if "y"
124            if(br.readLine().equalsIgnoreCase("y")){
125                String fname = br.readLine();
126                mail += "\n--sep\n" +
127                    "Content--Type: application/octet-stream; name=\\\""+fname+"\\\"\n" +
128                    "Content-Disposition: attachment; filename=\\\""+fname+"\\\"\n" +
129                    "Content-Transfer-Encoding: base64\n\n\n";
130
131                File f = new File(fname);//change path of image according to you
132                FileInputStream fis = new FileInputStream(f);
133                byte byteArray[] = new byte[(int)f.length()];
134                fis.read(byteArray);
135                String imageString = Base64.getEncoder().encodeToString(byteArray);
136                mail += imageString + "\n...\n";
137            }
138
139            mail += "--sep--\n" +
140                    ".\n" +
141                    "QUIT";
142            System.out.println(mail);
```

```
143          pr.println(mail);
144          pr.flush();
145          welcome = in.readLine();
146          System.out.println(welcome);
147          if(welcome.charAt(0) == '5' || welcome.charAt(0) == '4'){
148              System.out.println("Could not send mail");
149              exit(1);
150          }
151      }
152
153 }
```