```
class Email{
// Implement Email Class according to the specification.
Header header;
String body;
String greetings;
Email(Header header, String body, String greetings){
 this.header = header;
 this.body = body;
 this.greetings = greetings;
}
}
class Header{
// Implemet the Header Class according to the specification.
String from;
String to;
Header(String from, String to){
 this.from = from;
 this.to = to;
}
}
class EmailOperations {
// Implemet the Three methods specified in the specified.
public int emailVerify(Email e){
 Pattern\ pattern = Pattern.compile("^[A-Za-z][A-Za-z0-9.]+@[A-Za-z][A-Za-z0-9.]+\c [A-Za-z]+$");
 Matcher m1 = pattern.matcher(e.header.from);
 Matcher m2 = pattern.matcher(e.header.to);
 if(m1.matches() && m2.matches()){
 return 2;
 }
 else if(m1.matches() || m2.matches()){
 return 1:
 return 0;
}
public String bodyEncryption(Email e){
 /*if(e.body == null)
 return null;
 } */
 StringBuffer result= new StringBuffer();
 for (int i=0, len = e.body.length(); i < len; i++)
 if(e.body.charAt(i) == ' '){
  result.append(' ');
  continue;
```

```
if (Character.isUpperCase(e.body.charAt(i)))
         char ch = (char)(((int)e.body.charAt(i) + 3 - 65) \% 26 + 65);
         result.append(ch);
       else
         char ch = (char)(((int)e.body.charAt(i) + 3 - 97) \% 26 + 97);
         result.append(ch);
 return result.toString();
public String greetingMessage(Email e){
 String name ="";
 if(e.greetings != null && e.header.from != null){
  name = e.header.from.substring(0,e.header.from.indexOf("@"));
  return e.greetings+ " "+ name;
 return "";
}
public class Source {
public static void main(String args[] ) throws Exception {
/* Enter your code here. Read input from STDIN. Print output to STDOUT */
  // You can Implement your main() to check your Program.
```