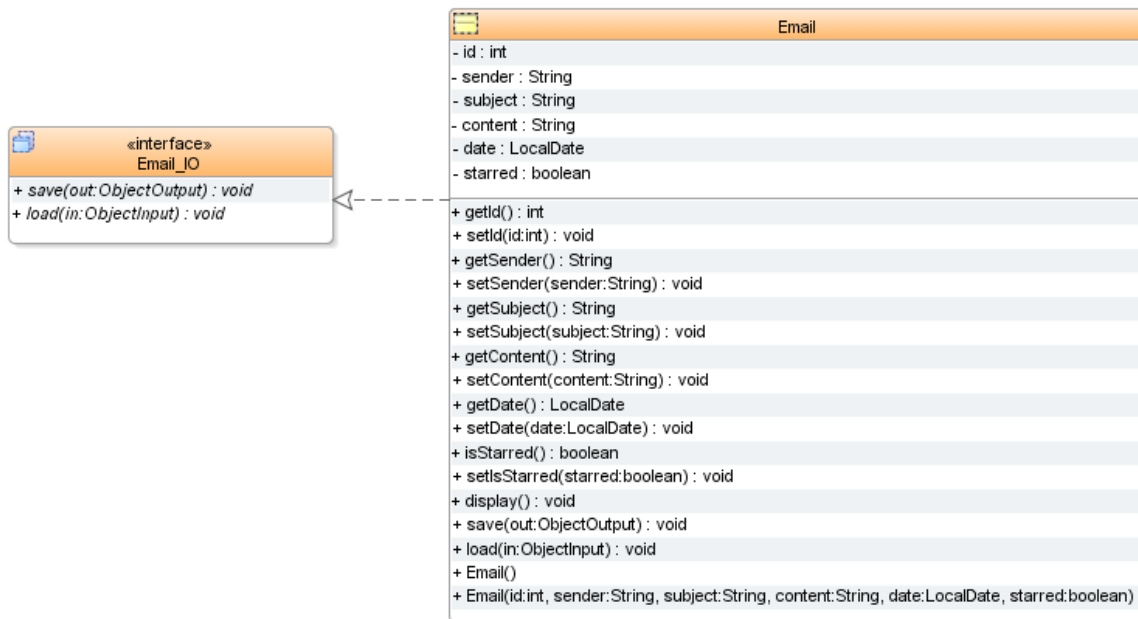


Jurnal



1. Implementasi class diagram di atas : (TOTAL 42,5)
 - a. Implementasi seluruh class, attribute, dan method berdasarkan class diagram diatas (12,5)
 - b. Implementasi method **display** dengan mengoutputkan value semua atribut Email (5)
 - c. Implementasi method **save** dengan menyimpan hanya value dari atribut sender, content, dan starred (12,5)
 - d. Implementasi method **load** dengan mengembalikan hanya value dari atribut sender, content, dan starred (12,5)
2. Buatlah driver untuk pengujian dengan implementasi : (TOTAL 27,5)
 - a. Buat minimal 3 instance Email (5)
 - b. Simpan semua instance Email dengan method **save** ke sebuah file bernama email.dat (10)
 - c. Buka file email.dat, ambil dan kembalikan semua instance Email yang tersimpan tadi dengan method **load**, setelah itu panggil **display** di tiap instance Email untuk validasi apakah value sebelum disimpan ke file sama dengan value setelah diambil dari file dan hanya value dari atribut sender, content, dan starred saja yang di-set (12,5)

Contoh output:

```
Jurnal Modul 11 PBO
Menyimpan data ke email.dat ...
Berhasil menyimpan ke email.dat
Mengambil data dari email.dat ...

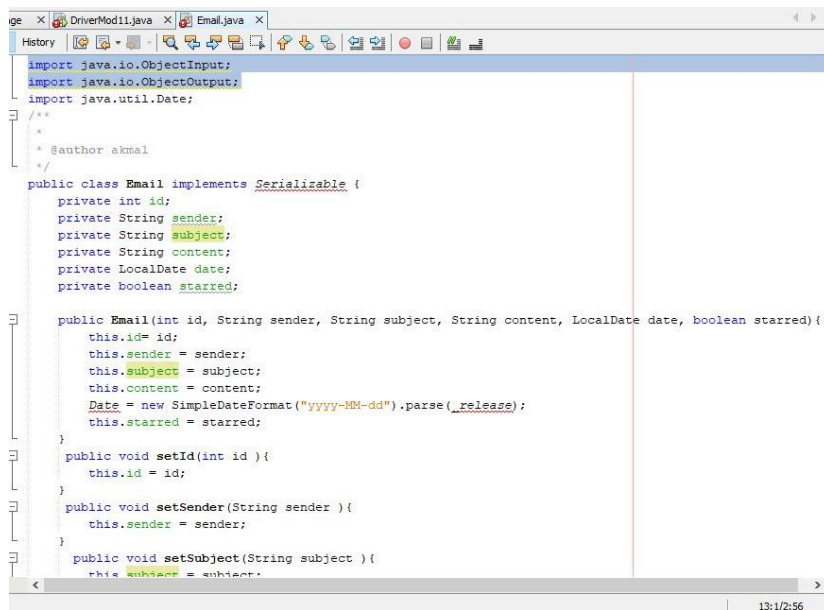
Eren Yeager          null
null
hello, how are you?      x

Armin Arlert          null
null
lets meet tomorrow!     x

Mikasa Ackerman       null
null
project deadline        *
```

Jawab 1 - 2 :

Class Email



```

import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.util.Date;

/**
 *
 * @author akmal
 */
public class Email implements Serializable {
    private int id;
    private String sender;
    private String subject;
    private String content;
    private LocalDate date;
    private boolean starred;

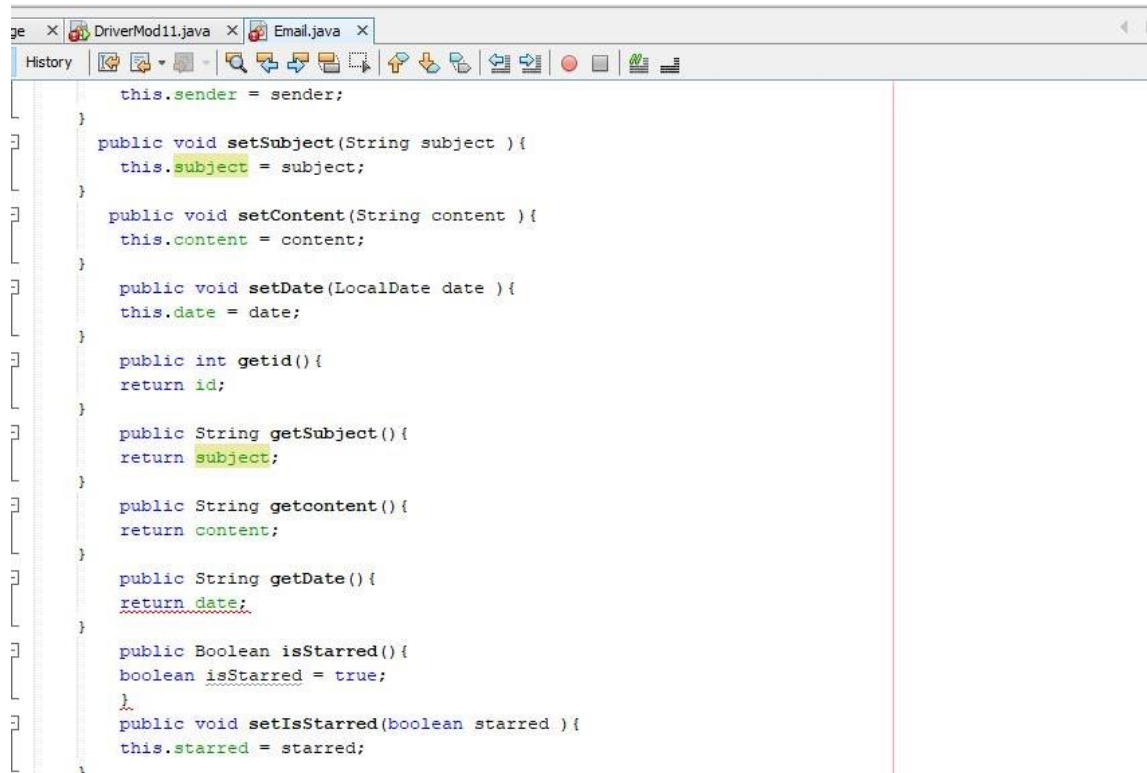
    public Email(int id, String sender, String subject, String content, LocalDate date, boolean starred) {
        this.id = id;
        this.sender = sender;
        this.subject = subject;
        this.content = content;
        Date = new SimpleDateFormat("yyyy-MM-dd").parse(_release);
        this.starred = starred;
    }

    public void setId(int id) {
        this.id = id;
    }

    public void setSender(String sender) {
        this.sender = sender;
    }

    public void setSubject(String subject) {
        this.subject = subject;
    }
}

```



```
ge x DriverMod11.java x Email.java x
History
this.sender = sender;
}
public void setSubject(String subject ){
    this.subject = subject;
}
public void setContent(String content ){
    this.content = content;
}
public void setDate(LocalDate date ){
    this.date = date;
}
public int getId(){
    return id;
}
public String getSubject(){
    return subject;
}
public String getContent(){
    return content;
}
public String getDate(){
    return date;
}
public Boolean isStarred(){
    boolean isStarred = true;
}
public void setIsStarred(boolean starred ){
    this.starred = starred;
}
```

```

x DriverModul1.java x Email.java x
History
public void display(){
    system.out.println("Jurnal Modul 11 PBO");
    system.out.println("Menyimpan data ke Email.dat");
    system.out.println("Berhasil menyimpan data ke Email.dat");
    system.out.println("Mengambil data dari email.dat");
    system.out.println("Eren yeager:",+this.subject);
    system.out.println("Armin Arlert:",+this.subject);
    system.out.println("Mikasa Ackerman:",+this.subject);
}
public void save(Email ob){
    try {
        FileOutputStream fos=new FileOutputStream("Email.txt");
        ObjectOutputStream oos=new ObjectOutputStream(fos);
        oos.writeObject(ob);
        oos.flush();
    } catch(IOException ioe){
        System.err.println("error "+ioe);
    }

    public void load(Email obb){
        try {
            FileInputStream fis =new FileInputStream("Email.txt");
            ObjectInputStream ois=new ObjectInputStream(fis);
            While ((obb = (Email)ois.readObject()) != null)
            obb.tampil();
        } catch(IOException ioe){
            System.exit(1);
        } catch(Exception e){
            System.exit(1);
        }
    }
}

```

Driver

```

ge x DriverModul1.java x Email.java x
History
import Email;
import java.io.ObjectInput;
import java.io.ObjectOutput;
/**
 * @author akmal
 */
public class DriverModul1 {
    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        Email a1=new email("Eren yeager", null);
        a1.save(a1);
        a1.load(a1);
        System.out.println("hello, how are you");
        Email a2=new email("Armin Arlert", null);
        a2.save(a2);
        a2.load(a2);
        System.out.println("lets meet tomorrow");
        Email a3=new email("Mikasa Ackerman", null);
        a3.save(a3);
        a3.load(a3);
        System.out.println("project deadline");
    }
}

```