

- A. In the Java code below, there are some errors related to the concept of PBO (Dealing with access rights, polymorphism, abstract class implementation, and exception handling). **Identify only 5 errors** that are contained in the code, explain the reasons **why the code is wrong**, and **how to solve the problems**.

```
Class Library{
    Book collections = new Book[100];

    public Library(){
        collections[0] = new Novel();
        collections[1] = new Literature();
        collections[2] = new Book();
        collections[3] = new Literature();
    }

    public void inputBook(){
        for(int i = 0; i < 4; i++)
            collections[i].inputInfo();
    }

    public void generateBook(){
        for(int i = 0; i < 4; i++)
            collections[i].generateBook();
    }

    public void printReports(){
        for(int i = 0; i < 4; i++)
            collections[i].printReport();
    }
}

Class Novel extends Book{
    public String language;

    public void printReport(){
        System.out.println("The ISBN      :"+this.isbn);
        System.out.println("The Title   :"+this.title);
        System.out.println("The Author  :"+this.author);
        System.out.println("The Language:"+this.language);
    }
}

Class Literature extends Book{
    public String category;

    public void setCategory(int cat){
        if(cat == 1)
            this.category = "Computer";
        else if(cat == 2)
```

```

        this.category = "Language";
    else
        this.category = "General";
    }
}

```

```

import Java.util.Scanner;

```

```

Abstract Class Book{
    protected String title, author;
    private String isbn;

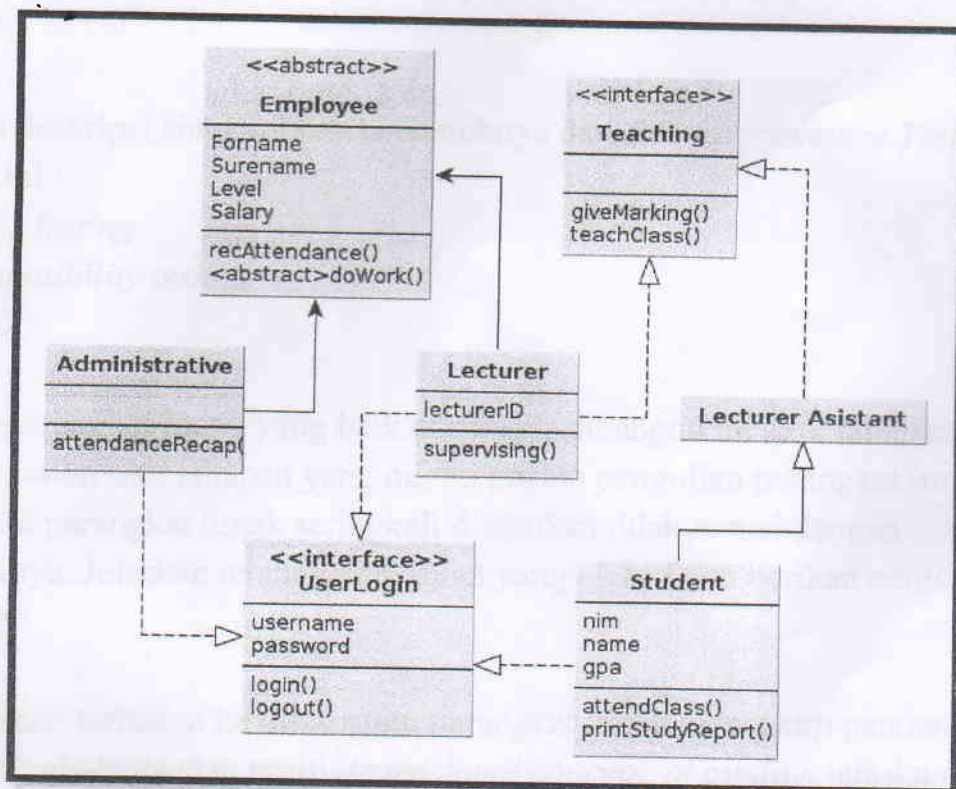
    public abstract void printReport();

    public void inputInfo()
        throws IOException { // IOException need to be handled
        Scanner input = new Scanner(System.in);
        this.title = input.nextLine();
        this.author = input.nextLine();
    }

    public void setAttributes(String title, String author){
        this.title = title; this.author = author;
    }
}

```

B. Implement the design of Class Diagram below into Java Programming Language.



Diperiksa Oleh :	Disahkan Oleh :
<b>Koordinator Mata Kuliah</b>	<b>Ka. Prodi</b>
