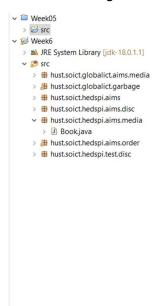# Bài thực hành Lab06

2.Creating the Book class

-creating the Book class

```java
2
3 import java.util.ArrayList;
5
6 public class Book {
7     private String title;
8     private String category;
9     private float cost;
10    private List<String> authors = new ArrayList<String>();
11    public Book() {
12        // TODO Auto-generated constructor stub
13    }
14
15    public String getTitle() {
16        return title;
17    }
18
19    public void setTitle(String title) {
20        this.title = title;
21    }
22
23    public String getCategory() {
24        return category;
25    }
26
27    public void setCategory(String category) {
28        this.category = category;
29    }
30
31    public float getCost() {
32        return cost;
33    }
34
35    public void setCost(float cost) {
36        this.cost = cost;
37    }
38
39    public List<String> getAuthors() {
40        return authors;
41    }
42
43    public void setAuthors(List<String> authors) {
44        this.authors = authors;
45    }
46
```

-The addAuthor method

```java
public List<String> addAuthor(String authorName) {
    if(authors == null)
        return null;
    if(authors.toString() != authorName) {
        authors.add(authorName);
    }
    return authors;
}
```

-The removeAuthor method

```java
public List<String> removeAuthor(String authorName) {
    if( authors == null)
        return null;
    if(authors.toString() == authorName)
        authors.remove(authorName);
    return authors;
}
```

3.Creating the Media class

-Creating the Media class

```java
package hust.soict.globalict.aims.media;

public class Media {
    private String title;
    private String category;
    private float cost;
    public Media() {
        // TODO Auto-generated constructor stub
    }
    public String getTitle() {
        return title;
    }
    public void setTitle(String title) {
        this.title = title;
    }
    public String getCategory() {
        return category;
    }
    public void setCategory(String category) {
        this.category = category;
    }
    public float getCost() {
        return cost;
    }
    public void setCost(float cost) {
        this.cost = cost;
    }

}
```

-Extend the Media class for both Book and DigitalVideoDisc

```java
package hust.soict.hedspi.aims.media;

import hust.soict.globalict.aims.media.Media;

public class Book extends Media{

}
```

```
1  package hust.soict.hedspi.aims.disc;
2
3  import hust.soict.globalict.aims.media.Media;
4
5  public class DigitalVideoDisc extends Media {
6  }
7
```

4.Update the Order class to work with Media

-Add the itemsOrdered to the Order class

```java
private ArrayList<Media> itemsOrdered = new ArrayList<Media>();
```

-Create addMedia

```java
public void addMedia(Media object) {
    itemsOrdered.add(object);
}
```

-Create removeMedia()

```java
public void removeMedia(Media object) {
    itemsOrdered.remove(object);
}
```

-Update the totalCost() method

```java
public float totalCost() {
    float cost = 0;
    int i=0;
    for(i=0;i<itemsOrdered.size();i++) {
        cost += itemsOrdered.get(i).getCost();
    }
    return cost;
}
```

5.Create a complete console application in the Aims class

-create menu:

```java
public static void showMenu() {
    System.out.println("Order Management Application");
    System.out.println("---------------------------");
    System.out.println("1.Create new Order");
    System.out.println("2.Add item to the order");
    System.out.println("3.Delete item by id");
    System.out.println("4.Display the items list of order");
    System.out.println("0.Exit");
    System.out.println("---------------------------");
    System.out.print("Please choose a hummer : ");
}
```

```java
while(a ==true) {
    showMenu();
    chose_menu=input.nextInt();
    switch(chose_menu) {
    case 1:
        while(List_Order.size() != index)
        {
            index++;
        }
        break;
    case 2:
        System.out.println("Name :");
        new_name = input.nextLine();
        Media new_media = new Media();
        System.out.println("The Title :");
        new_media.setTitle(input.nextLine());
        System.out.println("The Category :");
        new_media.setCategory(input.nextLine());
        System.out.println("The Cost :");
        new_media.setCost(input.nextFloat());
        anOrder.addMedia(new_media);
        List_Order.add(anOrder);
        break;
    case 3:
        System.out.print("Nhap vi tri can xoa :");
        find_index_delete = input.nextInt();
        if(List_Order.size() < find_index_delete)
        {
            System.out.println("Vi tri nay khong ton tai");
        }
        for(int i=0;i<List_Order.size();i++) {
            List_Order.remove(find_index_delete);
        }
        break;
    case 4:
        for(int i=0;i<List_Order.size();i++) {
            System.out.println(List_Order.get(i));
        }
        break;
    case 0:
        System.out.println("Goodbye");
        a= false;
        break;
```