



LAB INDEX

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UID: 21BCS8197 SUBJECT CODE: 20CSP-321

SECTION: 20BCS_WM-616/A

Sr.	Program	Date	Evaluation			Sign	
No	-		LW (12)			Total (30)	_
1.	Create an application to save the employee information using arrays.	16/08/2022					
2.	Design and implement a simple inventory control system for a small video rental store.	20/08/2022					







CHANDIGARH UNIVERSITY UNIVERSITY INSTITUTE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Submitted By: Sa	ahil Kaundal	Submitted To: Neeru Sharma
Subject Name	Programming Base	ed Learning Java (Lab)
Subject Code	20CSP-321	
Branch	Computer Science	Engineering
Semester	5th	







Experiment 2

Student Name: Sahil Kaundal UID: 21BCS8197

Branch: BE CSE (Lateral Entry) Section/Group: 616/A

Semester: 5th Date of Performance: 20/08/2022

Subject Name: PBLJ Lab Subject Code: 20CSP-321

1. Aim/Overview of the practical:

Design and implement a simple inventory control system for a small video rental store.

2. Apparatus / Simulator Used:

- 1. Eclipse IDE (Java)
- 2. NetBeans.

The goal of this project is to design and implement a simple inventory control system for a small video rental store.

Define least two classes: a class Video to model a video and a class VideoStore to model the actual store.

Assume that an object of class Video has the following attributes:

- 1. A title;
- 2. A flag to say whether it is checked out or not; and
- 3. An average user rating.

Add instance variables for each of these attributes to the Video class.

In addition, you will need to add methods corresponding to the following:

- 1. being checked out;
- 2. being returned; and
- 3. receiving a rating.

The VideoStore class will contain at least an instance variable that references an array of videos (say of length 10).

The VideoStore will contain the following methods:







- 1. addVideo(String): add a new video (by title) to the inventory;
- 2. checkOut(String): check out a video (by title);
- 3. returnVideo(String): return a video to the store;
- 4. receiveRating(String, int): take a user's rating for a video;
- 5. listInventory(): list the whole inventory of videos in the store.

Finally, create a VideoStoreLauncher class with a main() method which will test the functionality of your other two classes.

It should allow the following.

- 1. Add 3 videos: "The Matrix", "Godfather II", "Star Wars Episode IV: A New Hope".
- 2. Give several ratings to each video.
- 3. Rent each video out once and return it.

3. Programs:

```
package src;
import java.util.*;
class Video {
   String title;
   boolean Flag = false;
   int avg = 0;
}
class VideoStore {
   private static final Scanner input = new Scanner(System.in);
   String chek2;
   Video beat[] = new Video[10];
   int num_video;
   void addVideo() {
      System.out.println("Enter " + num_video + " Video Title:- ");
      for (int i = 0; i < num_video; i++) {
        beat[i] = new Video();
        beat[i].title = input.nextLine();
      }
      System.out.println("Enter " + num_video + " Video rating between 1 to 5:- ");
      for(int i = 0; i < num_video; i++) {
            beat[i].avg= input.nextInt();
      }
    }
    int chekOut(int k) {
      String chek1;
      System.out.println("chekout " + (k + 1));
      chek1 = input.next();
```







```
int returnvideo(int k) {
            this.reciveRating();
        } else if (beat[i].title.equals(chek2) && beat[i].Flag == false) {
            System.out.println("U cannot return this!");
void reciveRating() {
    System.out.println("Enter the rating between 1 to 5: ");
void listInventory() {
            System.out.println(beat[i].title + " Chekout!");
```







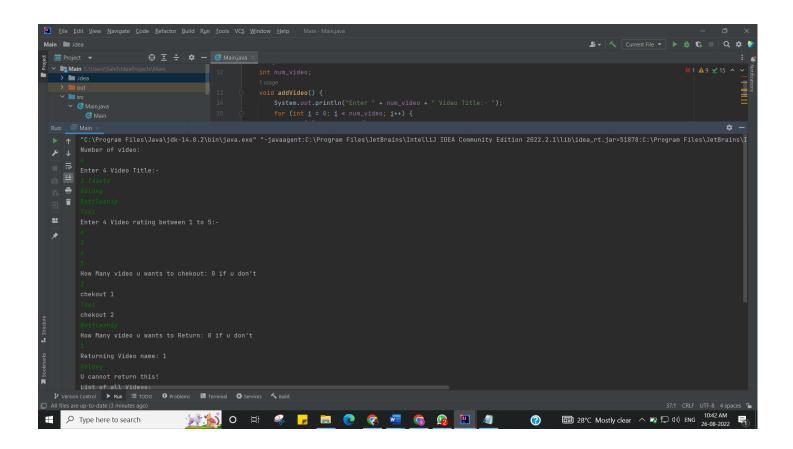
```
box.addVideo();
            System.out.println("Video Not Present");
        chek1 = box.returnvideo(i);
```







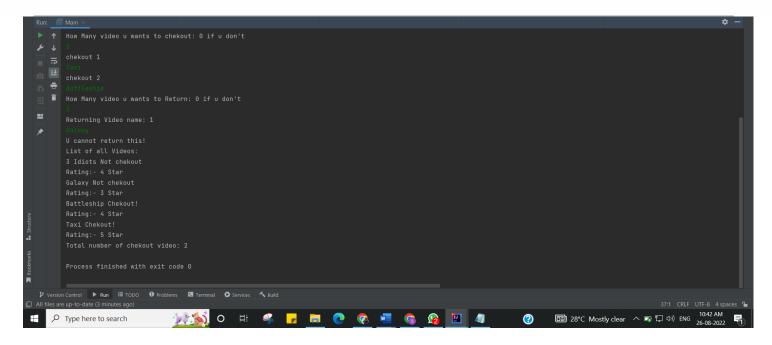
4. Result/Output/Writing Summary:











I have successfully done this program.

Learning Outcomes (What I have learnt):

- 1. Learn How use the inheritance concept.
- 2. java classes and all the features.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Parameters	Marks Obtained	Maximum Marks
	Parameters	Parameters Marks Obtained

