



Experiment - 2

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Subject Name: Machine Learning Lab Subject Code: 20CSP-317

1. Aim/Overview of the practical:

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

2. Task to be done/ Which logistics used:

Write the program to design and implement a simple inventory control system for a small video rental store.

3. Algorithm/Flowchart (For programming-based labs):

4. Steps for experiment/practical/Code:

```
import java.util.Scanner;
```

```
class Video {
  public String title;
  public boolean checked = true;
  int avgrating;

public boolean checked() {
  return checked;
  }

public void rent() {
  checked = false;
  }

public void returned() {
  checked = true;
  System.out.println("Video is returned ");
  }
```







```
public int getRating() {
  if (avgrating > 0) {
   return avgrating;
  } else {
   System.out.println("Rating is not available");
   return 0;
class VideoStore extends Video {
 Video v[] = new Video[10];
 static int i = 0;
 void addVideo(String title) {
  v[i] = new Video();
  this.title = title;
  v[i].title = title;
  i++;
  System.out.println("Video Added Successfully");
 }
 void checkOut(String title) {
  for (int k = 0; k < i; k++) {
   if \ (v[k].title.equalsIgnoreCase(title)) \ \{\\
     if (v[k].checked()) {
      v[k].rent();
      System.out.println("Video is rented");
     } else {
      System.out.println("Sorry Video not available");
```







```
void returnVideo(String title) {
 if (i == 0) {
  System.out.println("You have no video to return");
 for (int k = 0; k < i; k++) {
  if (v[k].title.equalsIgnoreCase(title)) {
    v[k].checked = true;
public void receiveRating() {
 if (i == 0) {
  System.out.println("No Video inInventory");
 } else {
  for (int k = 0; k < i; k++) {
    System.out.println("Enter the integer rating for movie " + v[k].title);
    Scanner ob = new Scanner(System.in);
    v[k].avgrating = ob.nextInt();
public void listInventory() {
 if (i == 0) {
  System.out.println("No Video in Inventory");
 } else {
  for (int k = 0; k < i; k++) {
    System.out.println(
     k +
     1 + 
     "."+
     v[k].title +
     " " +
     "Rating " +
```







```
v[k].avgrating +
      " Availability" +
      v[k].checked()
     );
public class VideoStoreLauncher {
 public static void main(String[] args) {
  VideoStore vs = new VideoStore();
  int ch, uCh, aCh;
  String title, choice;
  do {
   System.out.println("======Menu======");
   System.out.println("1. Login as User");
   System.out.println("2. Login as Admin");
   System.out.println("Enter Your Choice");
   Scanner s = new Scanner(System.in);
   ch = s.nextInt();
   do {
     switch (ch) {
      case 1:
       System.out.println("1. List Inventory");
       System.out.println("2. Rent Video");
       System.out.println("3. Enter the rating of Video");
       System.out.println("4. Return Video");
       uCh = s.nextInt();
       if (uCh == 1) {
        vs.listInventory();
       } else if (uCh == 2) {
        vs.listInventory();
        System.out.println("Enter the video Name you want");
```







```
title = s.next();
      vs.checkOut(title);
     } else if (uCh == 3) {
      vs.receiveRating();
    } else if (uCh == 4) {
      vs.rent();
    } else {
      System.out.println("No such Option is available");
    break;
   case 2:
    System.out.println("1. List Inventory");
    System.out.println("2. Add Video");
    aCh = s.nextInt();
    if (aCh == 1) {
      vs.listInventory();
    if (aCh == 2) {
      System.out.println("Enter the name of Video");
      title = s.next();
      vs.addVideo(title);
    break;
   default:
    System.out.println("Sorry Wrong Choice");
  System.out.println("Do you want to repeat yes/no");
  choice = s.next();
 } while (choice.equalsIgnoreCase("yes"));
System.out.println("Want to Return to main Menu yes/no");
choice = s.next();
} while (choice.equalsIgnoreCase("yes"));
```

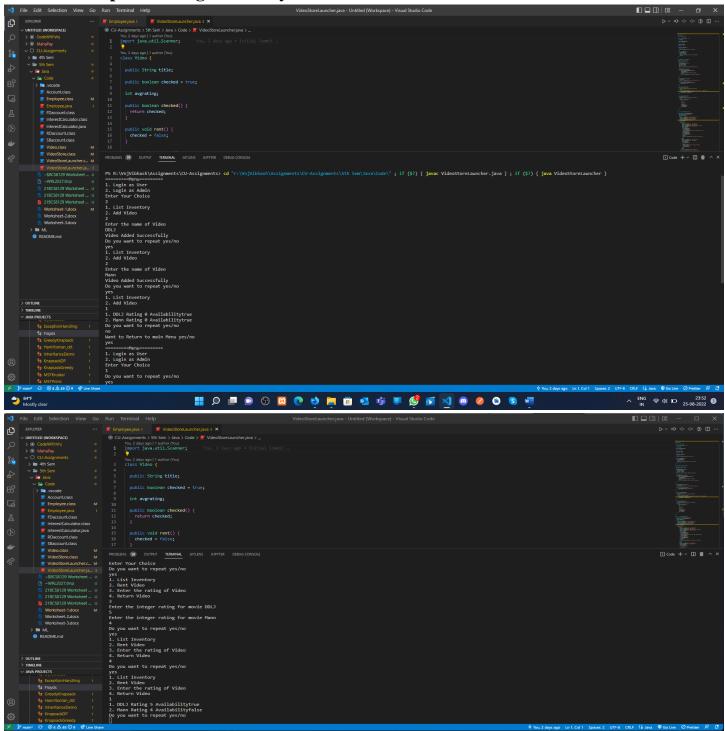




5. Observations/Discussions/ Complexity Analysis:

Here we have created the VideoStoreLauncher, VideoStore and Video and I have Passed all the Parameters according to the Requirement given in the question.

6. Result/Output/Writing Summary:









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):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

