



Experiment Title: 1.2

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Branch: CSE **Section/Group:** WM 607-B

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Subject Name: PBLJ 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. Algorithm/Flowchart:

- Create 3 classes in 3 different files i.e Video.java, VideoStore.java and Video_Launcher.java
- Make the data members and method function in Video.java
- Inherit the Video(base class) to VideoStore (derrived class) and make a array of the obj Video.
- Make specific methods and data members of VideoStore.
- Create a object of VideoStore class and then create a Menu Driven Program for Video_Launcher.
- Take User input using switch statements.
- End if user wants to quite else continue the menu driven program.

4. Steps for experiment/practical/Code:

```
import java.util.Scanner;
//20BCS5859
//Sourav Singh
class Video { public String
title; public boolean
checked=true;
  int avgrating;
  public boolean checked()
  {
    return checked:
```







```
public void rent() {
     checked=false;
  public void returned()
     System.out.println("Enter the video name you want to return");
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++)</pre>
       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++)</pre>
       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++)</pre>
          System.out.println("Enter the rating for movie"+v[k].title);
        }
```







```
}
  public void listInventory(){
    if(i==0)
       System.out.println("No Video in Inventory");
else
       for(int k=0;k<i;k++)</pre>
         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();
vs.addVideo("The Matrix");
                                vs.addVideo("God
               vs.addVideo("Star Wars Episode
FatherII");
IV:New Hope");
    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)
```







6. Result/Output/Writing Summary:







```
■×火息器配置型■■■
VideoStoreLauncher.java ×
                                                                                       ■ Console ×
   1 import java.util.Scanner;
2 //20BCS5859
                                                                                       Video Added Successfully
                                                                                       Video Added Successfully
                                                                                       Video Added Successfully
         public String title;
public boolean checked=true;
                                                                                       1. Login as User
         int avgrating;
                                                                                       2. Login as Admin
                                                                                       Enter Your Choice

    List Inventory
    Rent Video

                                                                                       3. Enter the rating of Video
                                                                                       4. Return Video
                                                                                      1. The Matrix Rating 0 Availabilitytrue
2. God FatherII Rating 0 Availabilitytrue
3. Star Wars Episode IV:New Hope Rating 0 Availabilitytrue
          public void returned()
              System.out.println("Enter the video name you want to retur
                                                                                       Enter the video Name you want
                                                                                       The Matrix
              System.out.println("Video is returned ");
                                                                                       Do you want to repeat yes/no
                                                                                       Want to Return to main Menu yes/no
              if(avgrating>0)
                   return avgrating;
```

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.			

