EXPERIMENT-1.2

Student Name: SANSKAR AGRAWAL   **UID:** 21BCS5914
Branch: CSE   **Section/Group:** 806/B
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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. Task to be done/ Which logistics used:

Eclipse IDE (Java)

3. Programming:-

```java
package pblj_lab;
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();
for (int i = 0; i < num_video; i++) {
```

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```java
    if (beat[i].title.equals(chek1) && (beat[i].Flag == false))
      { beat[i].Flag = true;
      return -1;
      }
    else if (beat[i].title.equals(chek1) && (beat[i].Flag == true))
    {
      System.out.println("Failed to chekout: ");
      return -1;
    }
  }
 return 1;
}
int returnvideo(int k) {
System.out.println("Returning Video name: " + (k + 1));
chek2 =input.next();
for (int i = 0; i < num_video; i++){
 if (beat[i].title.equals(chek2) && beat[i].Flag == true) {
      System.out.println("Video" + chek2 + " is returned");
    this.reciveRating();
    beat[i].Flag = false;
    return -1;
 }
  else if (beat[i].title.equals(chek2) && beat[i].Flag == false) {
    System.out.println("U cannot return this!");
    return -1;
  }
 }
return 1;
}
void reciveRating() {
System.out.println("Enter the rating between 1 to 5: ");
for (int i =0; i < num_video; i++) {
  if (beat[i].title.equals(chek2) && beat[i].Flag == true)  {
   beat[i].avg = input.nextInt();
  }
 }
}
void listInventory()
{
      System.out.println("List of all Videos: ");
      int total = 0;
for (int i = 0; i < num_video; i++) {
    if(beat[i].Flag == false) {
    System.out.println(beat[i].title + " Not chekout");
    }
    else {
    System.out.println(beat[i].title + " Chekout!"); total += 1;
    }
  if (beat[i].avg != 0) {
    System.out.println("Rating:- " + beat[i].avg + " Star ");
    }
```

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```java
        }
    System.out.println("Total number of chekout video: " + total);
    }
}
public class VideoStoreLauncher {
        public static void main(String[] args) {
VideoStore box = new VideoStore();
int chekout;
int ret;
Scanner in = new Scanner(System.in);
System.out.println("SANSKAR AGRAWAL  UID-20BCS5914 ");
System.out.println("Number of video: ");
box.num_video = in.nextInt(); box.addVideo();
System.out.println("How Many video u wants to checkout: 0 if u don't");
chekout = in.nextInt();
int chek = 1;
int chek1 = 1;
if (chekout != 0) {
for (int i = 0; i < chekout; i++) {
        chek= box.chekOut(i);
          if (chek == 1) {
           System.out.println("Video Not Present");
          }
    }
}
System.out.println("How Many video u wants to Return: 0 if u don't");
ret =in.nextInt();
if (ret != 0) {
for (int i = 0; i < ret; i++) {
chek1 = box.returnvideo(i);
if (chek1 == 1) {
System.out.println("Worng input!");
    }
  }
}
box.listInventory();
  }
}
```

5. Output:-

```
Problems  @ Javadoc  Declaration  Console ⊠
<terminated> VideoStoreLauncher [Java Application] C:\Program Files\Java\jre1.8.0_301\bin\javaw.exe
SANSKAR AGRAWAL   UID-20BCS5914
Number of video:
3
Enter 3 Video Title:-
The Matrix
Godfather
Starwars
Enter 3 Video rating between 1 to 5:-
4
3
5
How Many video u wants to checkout: 0 if u don't
2
chekout 1
Godfather
chekout 2
Starwars
How Many video u wants to Return: 0 if u don't
1
Returning Video name: 1
Starwars
VideoStarwars is returned
Enter the rating between 1 to 5:
1
List of all Videos:
The Matrix Not chekout
Rating:- 4 Star
Godfather Chekout!
Rating:- 3 Star
Starwars Not chekout
Rating:- 1 Star
Total number of chekout video: 1
```

Learning Outcomes(What I have learnt):-

1. To create a inventory control system in Java.
2. To generate analytical and conceptual ability related to fundaments of Java.

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.			