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Experiment 1.2

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Branch: CSE   **Section/Group: 607-A**
Semester:5th   **Date of Performance:20-08-2022**
Subject Name: PBLJ Lab   **Subject Code:20CSP321**

1. **Aim/Overview of the practical:** Design and implement a simple inventory control system for a small video rental store.

2. **Software/Hardware Requirements:** PC with access to interned and java/jdk installed with a java editor.

3. **Steps for experiment/practical/Code:**

```java
//Aayush Gurung 20BCS5323
import java.util.*;
class Video
{
String title;
Boolean flag=false;
static int rating=0;
}
class VideoStore
{
Video[] v=new Video[10];
void addVideo()
{
Scanner sc=new Scanner(System.in);
System.out.println("****VIDEO STORE****\n");
System.out.println("Enter 10 videos to store: ");
for(int i=0;i<10;i++)
{
```

```
v[i]=new Video();
v[i].title=sc.nextLine();
}
}
void checkOut(String s)
{
int c=0;
for(int i=0;i<10;i++)
{
if(v[i].title.equals(s) && v[i].flag==false)
v[i].flag=true;
else
c++;
}
if(c==10)
System.out.println("Video not available or been checked out");
}
void returnVideo(String s)
{
int c=0,r;
Scanner sc=new Scanner(System.in);
for(int i=0;i<10;i++)
{
if(v[i].title.equals(s) && v[i].flag==true)
{
v[i].flag=false;
System.out.println("Give rating 5 or less");
r=sc.nextInt();
if(r<=5)
receiveRating(s,r);
else
System.out.println("Please rate under 5");
}
else
{
c++;
}
}
if(c==10)
```

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```java
System.out.println("Video was never checked out");
}
void receiveRating(String s,int r)
{
System.out.println("Thanks for rating the video");
}
void listInventory()
{
//Aayush Gurung 20BCS5323
System.out.println("Current Inventory");
for(int i=0;i<10;i++)
{
if(v[i].flag==false)
System.out.println(v[i].title);
}
}
}
public class Main
{
public static void main(String args[])
{
String s;
Scanner sc=new Scanner(System.in);
VideoStore vs=new VideoStore();
vs.addVideo();
System.out.println("Enter a video for checkout");
s=sc.nextLine();
vs.checkOut(s);
System.out.println("Enter a video for checkin");
s=sc.nextLine();
vs.returnVideo(s);
vs.listInventory();
}
}
```

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4. Result/Output/Writing Summary:

```
****VIDEO STORE****

Enter 10 videos to store:
Lord of the rings
Demon slayer
One piece
JJK
tensei slime
Inception
Shutter Island
Pursuit of happiness
Apicro
Mipple
Enter a video for checkout
JJK
Enter a video for checkin
JJK
Give rating 5 or less
5
Thanks for rating the video
Current Inventory
Lord of the rings
Demon slayer
One piece
JJK
tensei slime
Inception
Shutter Island
Pursuit of happiness
Apicro
Mipple


...Program finished with exit code 0
Press ENTER to exit console.
```

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Learning outcomes (What I have learnt):

1. I learnt the OOPS concepts of java thoroughly.

2. Got to know more about the control flow of the statement.