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Professor: Streller, Dutta
Assignment: cs209_lab02A
Date: 09/14/2014

This program is about the using of the while-loop and break statements, switch statements, formatting of numeric values for display purposes, the use of strings for output and with string concatenation, and the use of JOptionPane dialogs.

Name	Date modified	Type	Size
build	9/14/2014 8:55 ...	File folder	
nbproject	9/14/2014 8:53 ...	File folder	
src	9/14/2014 8:53 ...	File folder	
build.xml	9/14/2014 8:53 ...	XML File	4 KB
manifest.mf	9/14/2014 8:53 ...	MF File	1 KB
runLab02A.bat	9/14/2014 4:21 ...	Windows Batch ...	1 KB

```
C:\Windows\system32\cmd.exe

C:\Users\Sai Kham\Desktop\cs209\Lab02A>"C:\Program Files\Java\jre1.8.0_20\bin\java" -cp ".\build\classes" lab02a.DecisionsLoopLabU3
```

Account Total

DVD 1, Cat: Action title: Tomorrow never die, Cost: 20.0, total = 20.0
DVD 2, Cat: Drama title: Gozila, Cost: 18.0, total = 38.0
DVD 3, Cat: ScienceFiction title: James Bon, Cost: 200.15, total = 238.15
DVD 4, Cat: Action title: Hello world, Cost: 19.0, total = 257.15

OK

The screenshot shows an IDE with the following components:

- Top Bar:** Displays the current file as `DecisionsLoopLabV3.java` and the active tab as `runLab02A.bat`.
- Left Panel (Source Packages):** Shows the project structure with `Lab02A` containing `lab02a`, which in turn contains `DecisionsLoopLabV3.java`.
- Main Editor:** Displays the source code of `DecisionsLoopLabV3.java`. The code includes package declarations, imports, and a `main` method that uses `JOptionPane` for user input and output.
- Bottom Panel (Output):** Shows the execution output of the program, displaying the results of three iterations of the loop and a final success message.

Source Code (DecisionsLoopLabV3.java):

```

1  /**
2   * DecisionsLoopLab.java
3   *
4   */
5  package lab02a;
6
7  import javax.swing.*;
8
9  public class DecisionsLoopLabV3 {
10
11     /**
12      * @param args the command line arguments
13      */
14     public static void main(String[] args) {
15         String title; // Value entered by user; string type
16         String costStr; // Value entered by user; string type
17         double cost, total = 0; // The double form of the user-entered DVD cost
18         int i = 0, num, resp = 0; // The user's response as to whether to continue
19
20         // Initialize the output string to the empty string
21         String outputStr = "", outputStr2 = "";
22
23         String category = ""; //Options for user to choose movies
24
25         // Loop to input information on the user's DVD collection
26         while (true) {
27             // Read in DVD title from user as a string
28             title = JOptionPane.showInputDialog("Enter DVD title");
29
30             category = JOptionPane.showInputDialog("Choose category by number\n");

```

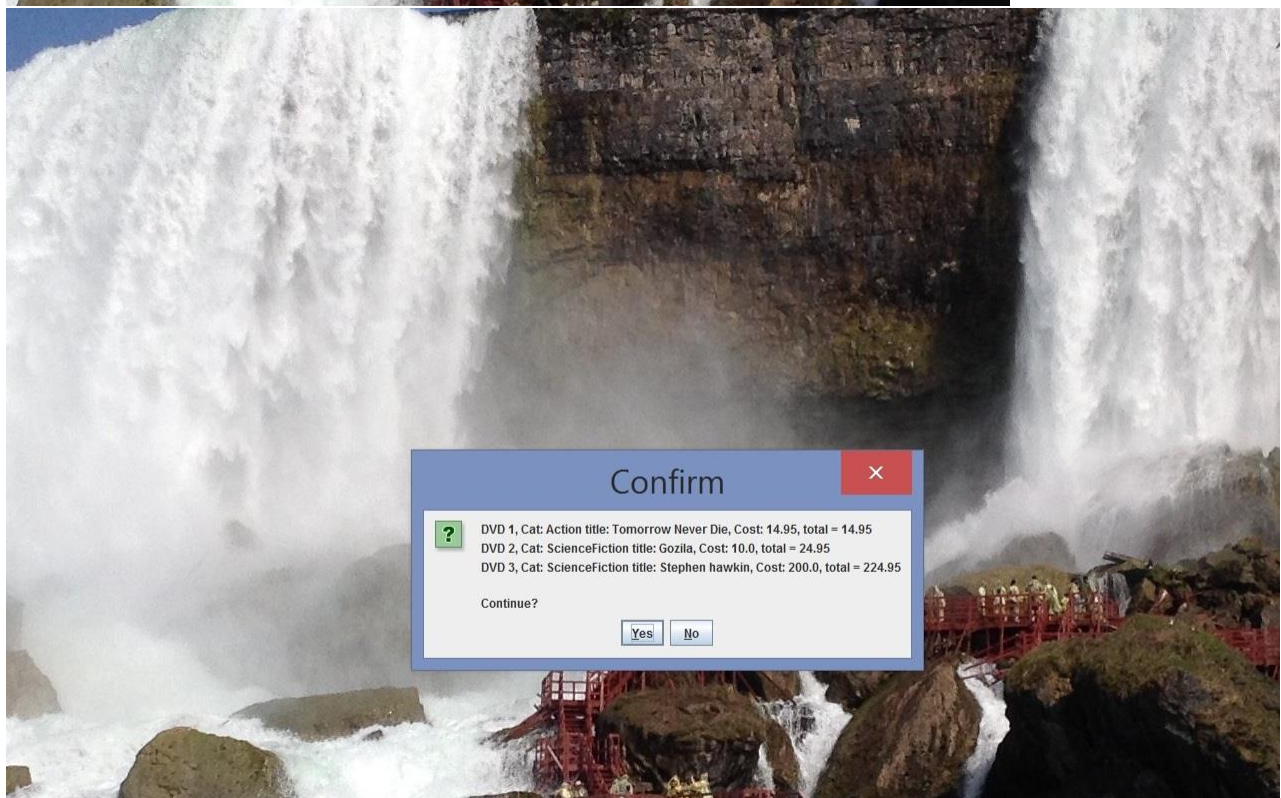
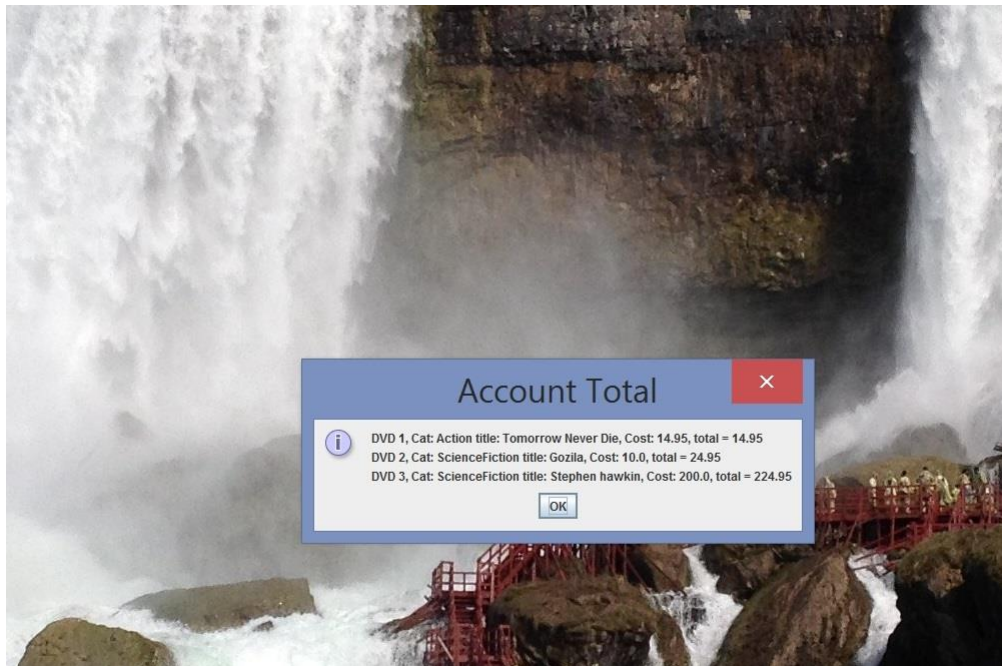
Output (Lab02A (run)):

```

run:
DVD 1, Cat: Action title: Tomorrow Never Die, Cost: 14.95, total = 1
DVD 2, Cat: ScienceFiction title: Gozila, Cost: 10.0, total = 24.95
DVD 3, Cat: ScienceFiction title: Stephen hawkin, Cost: 200.0, total

BUILD SUCCESSFUL (total time: 6 minutes 12 seconds)

```



File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

<default c...

rojects x Files Services

Lab02A

- Source Packages
 - lab02a
 - DecisionsLoopLabV3.java
- Libraries

DecisionsLoopLabV3.java x runLab02A.bat x

Source History

```

1  /*
2  *  DecisionsLoopLab.java
3  *
4  */
5  package lab02a;
6
7  import javax.swing.*;
8
9  public class DecisionsLoopLabV3 {
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11     /**
12     * @param args the command line arguments
13     */
14     public static void main(String[] args) {
15         String title;           // Value entered by user; string type
16         String costStr;         // Value entered by user; string type
17         double cost, total = 0; // The double form of
18         int i = 0, num, resp = 0; // The user's response
19
20         // Initialize the output string to the empty string
21         String outputStr = "", outputStr2 = "";
22
23         String category = ""; //Options for user to choose
24
25         // Loop to input information on the user's DVD collection
26         while (true) {
27             // Read in DVD title from user as a string
28             title = JOptionPane.showInputDialog("Enter DVD title");
29
30             category = JOptionPane.showInputDialog("Choose category by number 1-5 ");

```

main - Navigator x

Members <empty>

- lab02a.DecisionsLoopLabV3 :: java
 - main(java.lang.String[] args)

DecisionsLoopLabV3 > main >

Output - Lab02A (run) x

run:

Confirm

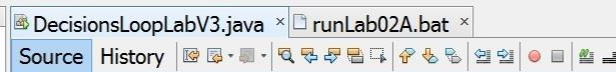
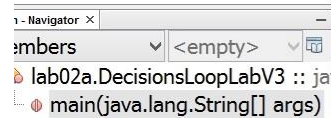
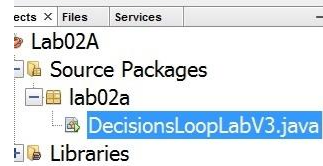


DVD 1, Cat: Action title: Tomorrow Never Die, Cost: 14.95, total = 14.95
 DVD 2, Cat: ScienceFiction title: Gozila, Cost: 10.0, total = 24.95

Continue?

Yes

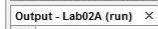
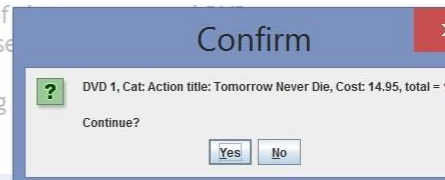
No



```

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21         String outputStr = "", outputStr2 = "";
22
23         String category = ""; // Options for user to choose movies
24
25         // Loop to input information on the user's DVD collection
26         while (true) {
27             // Read in DVD title from user as a string
28             title = JOptionPane.showInputDialog("Enter DVD title");
29
30             category = JOptionPane.showInputDialog("Choose category by number 1-4");

```



run:





File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

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Projects × Files Services

Lab02A

- Source Packages
 - lab02a
 - DecisionsLoopLabV3.java
- Libraries

DecisionsLoopLabV3.java × runLab02A.bat ×

Source History

```
1  /*
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26         while (true) {
27             // Read in DVD title from user as a string
28             title = JOptionPane.showInputDialog("Enter DVD title");
29
30             category = JOptionPane.showInputDialog("Choose category by number 1-5")
```

main - Navigator ×

Members <empty>

- lab02a.DecisionsLoopLabV3 :: java
- main(java.lang.String[] args)

DecisionsLoopLabV3 > main >

Output - Lab02A (run) ×

run:





File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

<default c...
[Icons]

Projects x Files Services

- Lab02A
 - Source Packages
 - lab02a
 - DecisionsLoopLabV3.java
 - Libraries

DecisionsLoopLabV3.java x runLab02A.bat x

Source History [Icons]

```
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26         while (true) {
27             // Read in DVD title from user as a string
28             title = JOptionPane.showInputDialog("Enter DVD title");
29
30             category = JOptionPane.showInputDialog("Choose category by number 1-5")
```

main - Navigator x

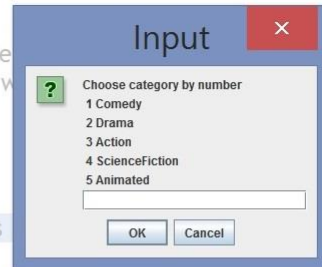
Members <empty> [Icons]

- lab02a.DecisionsLoopLabV3 :: ja
 - main(java.lang.String[] args)

DecisionsLoopLabV3 > main >

Output - Lab02A (run) x

run:



File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

rojects x Files Services -

Lab02A

- Source Packages
 - lab02a
 - DecisionsLoopLabV3.java
- Libraries

DecisionsLoopLabV3.java x runLab02A.bat x

Source History

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25         // Loop to input information on the user's DVD collection
26         while (true) {
27             // Read in DVD title from user as a string
28             title = JOptionPane.showInputDialog("Enter DVD title");
29
30             category = JOptionPane.showInputDialog("Choose category by number 1-4: ");
31         }
32     }
33 }
```

main - Navigator x

Members <empty>

- lab02a.DecisionsLoopLabV3 :: java.lang.Object
- main(java.lang.String[] args)

DecisionsLoopLabV3 > main >

Output - Lab02A (run) x

run:

Input

Enter DVD title

Tomorrow Never Die

OK Cancel

cs209 ▶ Lab02A

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build	9/14/2014 8:55 ...	File folder	
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DUD 1, Cat: Action title: Tomorrow never die, Cost: 20.0, total = 20.0
DUD 2, Cat: Drama title: Gozila, Cost: 18.0, total = 38.0
DUD 3, Cat: ScienceFiction title: James Bon, Cost: 200.15, total = 238.15
DUD 4, Cat: Action title: Hello world, Cost: 19.0, total = 257.15

C:\Users\Sai Kham\Desktop\cs209\Lab02A>pause
Press any key to continue . . .
```