



IT2030
Object Oriented Programming
2nd Year, 1st Semester

MID Assignment

Submitted to
Sri Lanka Institute of Information Technology

In partial fulfillment of the requirements for the
Bachelor of Science Special Honors Degree in Information Technology

Name : S D Kasthuriarachchi

ID NO : IT19082066

Group : 12.1(CSNE)

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Declaration

I certify that this report does not incorporate without acknowledgement, any material previously submitted for a degree or diploma in any university, and to the best of my knowledge and belief it does not contain any material previously published or written by another person, except where due reference is made in text.

Registration Number : IT19082066

Name : S D Kasthuriarachchi

Console Output

The screenshot shows the Eclipse IDE interface with the title bar "java - Eclipse IDE". The "Console" tab is selected, displaying the following text:

```
<terminated> PlaySong [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Mar 31, 2020, 9:55:04 PM - 9:57:39 PM)
Enter Song:
Tik Tok
Enter Rate:
2500

Enter Song:
Staying Alive
Enter Rate:
2000

Enter Song:
Unsing
Enter Rate:
2200

Enter Song:
With you
Enter Rate:
1800

Enter Song:
Horizon
Enter Rate:
1500
```

The "Package Explorer" view shows a project named "midAssignment" containing files: User.java, Artist.java, Calculations.java, Operators.java, PlaySong.java, and User.java. The "Problems" view shows 4 warnings.

Figure 1.1

- ❖ The above figure shows the output of `song_list_storage()` Method.

The screenshot shows the Eclipse IDE interface with a Java application named 'PlayASong' running. In the 'Console' view, the application prompts for song information and then attempts to parse a rate value. It receives 'Iris' and '2500' as inputs. The application then throws a `java.lang.NumberFormatException` because it cannot parse 'sta' as an integer. The error message is displayed in red text.

```
PlaySong [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Mar 31, 2020, 10:49:00 PM)
Enter Song:
Iris
Enter Rate:
2500

Enter Song:
Staying Alive
Enter Rate:
sta
java.lang.NumberFormatException: For input string: "sta"
Something went wrong
Enter a correct value
at java.lang.NumberFormatException.forInputString(Unknown Source)
at java.lang.Integer.parseInt(Unknown Source)
at java.lang.Integer.parseInt(Unknown Source)
at midAssignment.Artist.song_list_storage(Artist.java:44)
at midAssignment.PlayASong.main(PlayASong.java:17)
```

Figure 1.2

- ❖ The above figure shows a error message if entered a String value for the rate field.

The screenshot shows the Eclipse IDE interface with a Java application named 'PlayASong' running. In the 'Console' view, the application prints details about an artist named Pablo Albo. It outputs his name, email, genre, and a list of songs, all of which are null. The output is displayed in black text.

```
<terminated> PlayASong [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Mar 31, 2020, 9:58:15 PM - 9:58:17 PM)
Artist name is Pablo Albo
Artist email is pablo@mail.com
Artist music genre is pop
Number of songs is 5
Song list is:
null null
null null
null null
null null
null null
```

Figure 2

- ❖ The above figure shows the output of `printDetails()` Method in Artist class.

The screenshot shows the Eclipse IDE interface with the following details:

- File Explorer:** Shows a package named "midAssignment" containing Java files: User.java, Artist.java, Operators.java, Calculations.java, and PlayASong.java.
- Console View:** Displays the output of a Java application named "PlayASong". The output includes:

```
<terminated> PlayASong [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Mar 31, 2020, 9:58:42 PM - 9:58:44 PM)
Operator name is Simon
Operator email is simon@playsong.com
Operator employee number is 123
Operator designation is accountant
```
- Problems View:** Shows 0 errors, 4 warnings, and 0 others. A warning message is listed: "Warnings (4 items)".
- Task List:** Shows a search bar with "Find" and filter options "All" and "Activate...".
- Outline View:** States "There is no active editor that provides an outline."

Figure 3

- ❖ The above figure shows the output of `printDetails()` Method in Operators class.

The screenshot shows the Eclipse IDE interface with the following details:

- File Explorer:** Shows a package named "midAssignment" containing Java files: User.java, Artist.java, Operators.java, Calculations.java, and PlayASong.java.
- Console View:** Displays the output of a Java application named "PlayASong". The output includes:

```
PlayASong [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Mar 31, 2020, 9:59:18 PM)
Enter the number of downloads :
60
```
- Problems View:** Shows 0 errors, 3 warnings, and 0 others. A warning message is listed: "Warnings (3 items)".
- Task List:** Shows a search bar with "Find" and filter options "All" and "Activate...".
- Outline View:** States "There is no active editor that provides an outline."

Figure 4

- ❖ The above figure shows the output of `calculateRevenue(Artist Art1)` Method.

The screenshot shows the Eclipse IDE interface with the title bar "java - Eclipse IDE". The "Console" tab is active, displaying the following output:

```
<terminated> PlayASong [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Mar 31, 2020, 9:26:58 PM - 9:29:58 PM)
Enter Song:
Iris
Enter Rate:
2500

Enter Song:
Staying Alive
Enter Rate:
2000

Enter Song:
Unsing
Enter Rate:
2200

Enter Song:
With you
Enter Rate:
1800

Enter Song:
Horizon
Enter Rate:
1500
```

The "Package Explorer" view shows a project structure with packages "midAssignment" and "src" containing files "Artist.java", "Calculations.java", "Operators.java", "PlayASong.java", and "User.java". The "Problems" view shows 0 errors, 3 warnings, and 0 others.

Figure 5.1

The screenshot shows the Eclipse IDE interface with the title bar "java - Eclipse IDE". The "Console" tab is active, displaying the following output:

```
<terminated> PlayASong [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Mar 31, 2020, 9:26:58 PM - 9:29:58 PM)
Artist name is Pablo Albo
Artist email is pablo@gmail.com
Artist music genre is pop
Number of songs is 5
Song list is:
Iris 2500
Staying Alive 2000
Unsing 2200
With you 1800
Horizon 1500

Operator name is Simon
Operator email is simon@playsong.com
Operator employee number is 123
Operator designation is accountant

Enter the number of downloads :
60

Artist: Pablo Albo
Album Revenue is LKR 120000.0
```

The "Package Explorer" view shows a project structure with packages "midAssignment" and "src" containing files "Artist.java", "Calculations.java", "Operators.java", "PlayASong.java", and "User.java". The "Problems" view shows 0 errors, 3 warnings, and 0 others.

Figure 5.2

- ❖ The above 5.1 and 5.2 figures shows the last output of the all methods and functions.