



Project Title — Java Input Output -L1-Assignment

Project Type	Project Name/ID	Hosted By TG/Account	Duration	Project Owner /Account
L1 Assignment	Java Input Output -L1 -Assignment	TopGear	5 PDs	NA

Table of Contents

About This Project	2
Who Is Eligible.....	2
Pre-Requisites	2
Scope of Work & Deliverables.....	2
Technologies	2
Training Tasks	2
Environment.....	4
Completion Criteria	4
Assumptions	4
Project Submission Guidelines.....	4
References	4

About This Project

This is L1 level training on core input and output (java.io) package of Java programming language.

Who Is Eligible

All users who have either completed TopGear Core Java L1 training or experienced with OOPS and essential Core Java programming.

Pre-Requisites

1. User need to have experience in Object Oriented Programming Concepts (OOPS) and Core Java.
2. Should have completed Core Java L1 level training.
3. User is recommended to consult a TopGear mentor and clarify doubts/queries (if any) before joining the project.
4. Project to be submitted to TopGear project repository using GIT with appropriate documentation and packaged as guided by TopGear mentor.
5. Irrelevant submission will be barred from review and will be considered not completed, which will be re-opened with appropriate comments.

Scope of Work & Deliverables

1. Coding & Testing
2. Source files packaged as guided.
3. To understand executing and submission process of TopGear Training and Case study projects user can refer following documents on the portal:

[https://topgear-app.wipro.com/sites/default/files/steps to execute topgear training case study projects v-1-2-1.pdf](https://topgear-app.wipro.com/sites/default/files/steps%20to%20execute%20topgear%20training%20case%20study%20projects%20v-1-2-1.pdf)

4. **Note:** User is recommended to read this document thoroughly before starting with their respective TopGear project.

Technologies

This assignment uses Java language to explore and learn topics on input /output (i/o) programming.

Training Tasks

1. Task to implement encoding for URL content in Java :

URLEncoder is a utility class for HTML form encoding. This class contains static methods for converting a String to the application/x-www-form-urlencoded MIME format. Encode the argument that is passed to the main method

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
```

```

public class MyUrlEncode {

    public static void main(String a[]){

        //encoding logic goes here
    }
}

```

2. Task to get files from the folder filtered by an extension :

List all the files of a specific extension from the folder passed as parameters

```

import java.io.File;
import java.io.FilenameFilter;

public class MyFilteredFileList {

    public static void main(String a[]){
//code to list files filtered by extension
        for(File f:files){
            System.out.println(f.getName());
        }
    }
}

```

3. Task to store data in a temp file :

Create a temp file and store the data from the console into the temp file

```

import java.io.BufferedWriter;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;

public class MyTempFileWrite {

    public static void main(String a[]){

        File tempFile = null;
        BufferedWriter writer = null;
        //write logic to create a the temp file and store the data from the console
to the temp file
    }
}

```

Environment

To execute this training project user can use own desktop/laptop set with essential Java development environment (need GitBash tool) or can use TopGear provided VDI (Spring SOA Hibernate) which is configured for Java and Java EE development

Completion Criteria

- Employee should complete the project within timeline provided.
- In case user has not followed appropriate steps or job is partly finished, then project can be reopened/reverted back.
- Employee must follow all rules and tasks as instructed to avoid rejection/reopening of projects.
- Once the project is closed successfully after submission and review, user will earn # reward points and the user will be visible to appropriate practices and accounts.
- If the user has completed a Use case, project or Solution project, he/she must update his/her Wipro profile with the project details he worked.
- User should update efforts against TopGear projects in time sheet.

Assumptions

Users joining this program have knowledge/understanding of OOPS concepts and Core Java programming APIs

Project Submission Guidelines

- Login <https://topgear.wipro.com>
- Go to Java-J2EE → Java → Training Tab
- Join Java Input Output -L1-Assignment project.
- Practice on assignment as per project specification.
- Once complete the project work, submit/check-in the same as instructed to TopGear GitLab.
- User can refer following document to understand execution and submission procedure of TopGear training and case study projects

https://topgear-app.wipro.com/sites/default/files/steps_to_execute_topgear_training_case_study_projects_v-1-2-1.pdf

References

- <https://docs.oracle.com/javase/tutorial/essential/io/file.html>
- <http://www.vogella.com/tutorials/JavaIO/article.html>
- https://www.tutorialspoint.com/java/java_files_io.htm