Important Links:

Source Code on GitHub:
https://github.com/Ctrn/ConstDownloadManager/tree/master/MultiPartDownloader

Design Document:
https://docs.google.com/document/d/1Y3S1iacV6dy4Qdjz_n8_cosU5j1_2lCNLdO3E9m4zKs/edit

Logging:
We used http://logging.apache.org/log4j/1.2/ instead of Java Logging API as it is more usable in defining Logger levels. This library is included as a jar file within the project. We also have referred to the official documentation to learn and use it. This framework is facade and have direct calls to Java Util Logging, which provides us a variety of logging implementations.

Construction principle: We implemented an abstract framework for Logging so we do not refactor the code when we are changing the logger classes.
We used different Logging levels in the project classes including:
1. INFO: informative messages for the user
2. ERROR: inform the user with errors occurred while execution
3. DEBUG: example usage on function entering and printing some variables, not needed to be showed to the user.

Classes:
Notes: Each Class has a signature including:
1. Short Description
2. Date Created:
3. Author:
4. Updates if available

Classes are distributed into packages as the following:

1. Core package:
a. Segment Class: this class includes a list of mirrors, each mirrors represents a segment. We will treat the segment mirrors as one unit, later on the implementation, we will loop over the mirrors until the StreamWriter returns SUCCESS.
We will use InputStream and OutputStream for streaming the given url segment.
b.
2.