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| EPAM Systems, RD Dep. |
| BI.Talend\_Data\_Integration |

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| REVISION HISTORY | | | | | |
| Ver. | Description of Change | Author | Date | Approved | |
| Name | Effective Date |
| 1 | Initial version | Sergey Moukavoztchik | 12/01/2018 |  |  |
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# Preparation

1. Download and unarchive Talend Open Studio for Data Integration.
2. Create project
3. Created jobs and other repository elements should be Exported and pushed to separate repo at github.
4. Link to the repo need to be added to google sheet https://docs.google.com/spreadsheets/d/1PaA-xGj1087e0Uzd5vstPeCj8e198EyUO2j-3s\_9DK4/edit?usp=sharing
5. Optionally you can add text document with a description of your jobs.

# Tasks

Imagine that we need to send files to 3rd-party system. It sore them as Base64 encoded string. We need to implement a mechanism which will take a file content and encode it using: org.apache.commons.codec.binary.Base64 ( <https://commons.apache.org/proper/commons-codec/apidocs/org/apache/commons/codec/binary/Base64.html> ) Library which contains this class could be found in a folder with course materials. Use **tLibraryLoad** to add it to talend project.

Required method takes array of bytes as input param. You can convert String to []byte using . getBytes() method of string class

1. Implement a job, which read a file as one single string, perform its conversion and then put to the database table together with filename. Conversion could be done inside tJavaRow component. Do not forget to add org.apache.commons.codec.binary.Base64 to the imports.
2. Perform a refactoring. Create a Talend routine which convert String to Base64 encoded string. Create a new job, which perform the same actions but do the conversion using defined routine.