# Task scenario

Your company would like to automate the process of calculating production line efficiency. The data is gathered in an xml file.

# Application requirements

* 1. Write application in C#.
  2. Xml file is located on disk d:\Efficiency\eff.xml
  3. At 10:18 AM application must process XML file and the store calculated data in SQL database.
  4. Efficiency – it is 100% - ((sum rejected)/(sum tested) \* 100%)
  5. The table with results must contain the following values:

*current date, efficiency, processing status*

* 1. After file processing, an e-mail message must be sent to [report@mail.com](mailto:report@mail.com)*.*  
     In case there was an error during file processing, e-mail subject should contain “ERROR” phrase, otherwise “SUCCESS”
  2. Sample XML file is presented on the next page.   
     Please feel free to prepare similar input files to test several scenarios in your unit tests.

Please, complete this task until 14th of June.

If you have any questions, please contact Jolanta Urbanek ([jolanta.urbanek@canpack.com](mailto:jolanta.urbanek@canpack.com)).

**<?xml version="1.0" encoding="UTF-8"?>**

**<RejectDataResponse version="1.00.00.000">**

**<head>**

**<target>9</target>**

**<type>ProductionData</type>**

**<description></description>**

**<timestamp>2021-05-31T11:02:02</timestamp>**

**</head>**

**<body>**

**<source name="MC">**

**<sample timestamp="2021-05-31T08:00:00">**

**<data name="TESTED">1836</data>**

**<data name="REJECTED">0</data>**

**</sample>**

**<sample timestamp="2021-05-31T08:30:00">**

**<data name="TESTED">543</data>**

**<data name="REJECTED">2</data>**

**</sample>**

**<sample timestamp="2021-05-31T09:00:00">**

**<data name="TESTED">8743</data>**

**<data name="REJECTED">324</data>**

**</sample>**

**<sample timestamp="2021-05-31T09:30:00">**

**<data name="TESTED">2344</data>**

**<data name="REJECTED">875</data>**

**</sample>**

**<sample timestamp="2021-05-31T10:00:00">**

**<data name="TESTED">1569</data>**

**<data name="REJECTED">1486</data>**

**</sample>**

**</source>**

**</body>**

**</RejectDataResponse>**