**DOKUZ EYLUL UNIVERSITY**

**ENGINEERING FACULTY**

**DEPARTMENT OF COMPUTER ENGINEERING**

**CME 2202 DATA ORGNIZATION and MANAGEMENT**

**ASSIGNMENT-1**

**File Convertor - Bin2XML**

Lecturers

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**1. Introduction :**

In this assignment, I have developed a command-line tool to convert a binary file to XML format. Where the program takes the path of the source and the destination file to perform the reading and writing operations.

**2. Algorithms and Solutions :**

Basically, The project is done using the C language. It consists of one main class that contains the necessary methods and structs. there is the **ReadEmployee** method that reads the records of employees from a (dat) file, and fills the structs by information read from the records file depending on the variables in the structs. Where it makes many of copies of employees with different data.

Besides, there are **BTL** and **LTB** (little and big-endian ) methods that perform the converting from little to big-endian and from big to little-endian.  
In the **main** method, after the reading operation is done, I start creating the XML file, where I construct a file that will be filled by the employees' structs, with controlling the writing operation to get a correct form of XML file, where I consider the tags and the other syntax rules of XML

**3. Problems Encountered:**

As a main problem that I encountered was validating the XML file using XSD file, where I did a lot of research about this problem, but I could not find anything helps me to perform this task, that I faced a problem while reading and writing in different codings like UTF-8 and UTF-16

**4. Sample Screenshots:**

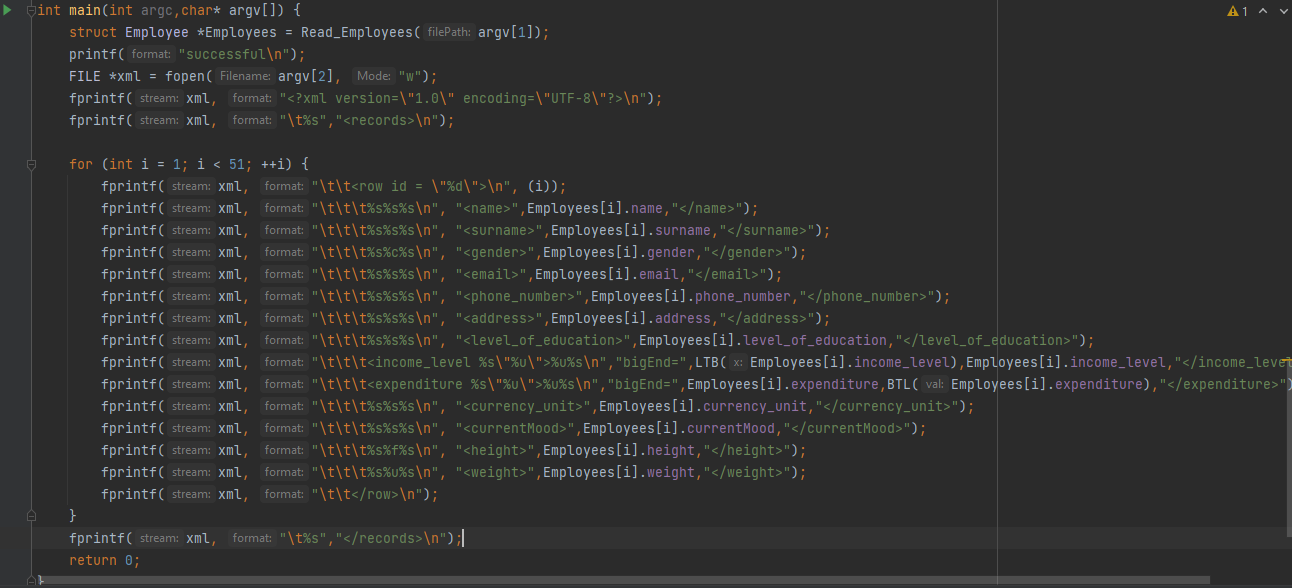
صورة تحتوي على نص

تم إنشاء الوصف تلقائياً صورة تحتوي على نص

تم إنشاء الوصف تلقائياً

صورة تحتوي على نص

تم إنشاء الوصف تلقائياً



صورة تحتوي على نص, لقطة شاشة, كمبيوتر, كمبيوتر محمول

تم إنشاء الوصف تلقائياًصورة تحتوي على نص, شاشة عرض, كمبيوتر, داخلي

تم إنشاء الوصف تلقائياً