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Decimal to Binary Java to Python Conversion

This artifact is a python program that will convert the user's decimal to its binary counterpart. This program was initially created in 2018 as a java program for decimal to binary conversion. I wanted to include this artifact into my portfolio to demonstrate my ability to reverse engineer a program from one language to another. Java is my strongest language, but I am slowly getting to a very strong point in my python coding. My goal in this artifact was to show the java program commented then create the python version below. Creation of an algorithm to satisfy a task is a great way to demonstrate problem solving. Decimal to Binary is a math function at its root so I wanted to showcase my ability to understand and apply mathematical concepts to a program.

The challenges I faced were understanding what I needed to add in my for loop and how to apply the right transition to change the decimal to binary inside that for loop. The list or container for the binary list is like the java program and the variable for the decimal which is needed for the users input. My continued challenge is to add a front-end user interface to this project. I have ample experience with the user interface for java, but I am still applying myself in the direction of python front end UI. I improved my artifact through comments. Since I am still learning python and I needed to access w3 schools and a few different boot camps I made sure to add commenting so that I would understand what was happening if I don't return to this project for a bit.