**Binary Numeral System**

The binary numeral system, also known as the base-2 numeral system, is a system of numbering that uses only two digits: 0 and 1. This system is used extensively in digital technology, such as in computers and telecommunications, because it represents the on and off states of a switch, transistor, or other electronic device.

**Project:**

This is a Python program that converts decimal and hexadecimal numbers to binary. The program asks the user to input a number and choose the numeral system they want to convert from (either decimal or hexadecimal). It then calculates and prints the binary equivalent of the number.

The program also includes a loop that allows the user to continue converting numbers until they choose to exit. If the user inputs an invalid option or numeral system, the program will raise a SystemExit exception with an appropriate error message.

Overall, this program provides a simple tool for converting decimal and hexadecimal numbers to binary using Python.