**ReadMe group 3**

# Decimal and Binary Converter

This Python script provides functionality to convert decimal numbers to binary representation and vice versa (without using built-in functions for conversion).

# Features

- Converts decimal numbers to binary representation.

- Converts binary strings to decimal representation.

- User-friendly interface for interaction.

# Usage

1. Run the script.

2. Enter your choice: 1 for Decimal to Binary, 2 for Binary to Decimal, and 3 to Exit.

3. Enter the number you want to convert

# How it Works

- The `decimal\_to\_binary` function takes a decimal number as input and iteratively divides it by 2, appending the remainder to a binary string until the quotient becomes zero.

- The `binary\_to\_decimal` function converts a binary string to a decimal number by multiplying each digit with the appropriate power of 2.

- The `main` function provides a simple command-line interface for users to choose between conversion options.