Title

Convert hexadecimal, octal to binary.

Background

N/A

Program Specifications

Design a program that allows users to input a hexadecimal or octal and output the corresponding binary form. The program should be repetitive until users close the program.

Function details:

1. Function 1: Display a screen to prompt users to input a hexadecimal number or octal number.
   o Users run the program, display a screen to ask users to enter a hexadecimal number or octal number.

   o Users input a hexadecimal number or octal number. Then, perform Function 2.

2. Function 2: Convert hexadecimal number or octal number to binary.
   o The program converts the inputted hexadecimal number or octal number to corresponding binary.

   o Perform Function 3.

3. Function 3: Output the binary to the screen.

Expectation of User interface:

Convert Hexadecimal number / Octal number to Binary program
  Enter a Hexadecimal (h) / Octal (q) number: CAFEh
  Binary number: 1100 1010 1111 1110b
Press any key to do another conversion.

Convert Hexadecimal number / Octal number to Binary program
  Enter a Hexadecimal (h) / Octal (q) number: 1703q
  Binary number: 001 111 000 011b
Press any key to do another conversion.

Guidelines