Practice #3: if statement

Objectives:

- Understand the concepts of the conditional statement.

Steps:

1. **Adulthood**

- Make a program which can tell if the user is an adult or not. You can use two "if" statements.

Input:

Enter your age: 19

Output:

You are an adult.

Input:

Enter your age: 15

Output:

You are a child.

2. **Checking the user input**

- Make a program which ask the number 0 or 1 from a user. The program check if it's a really the number 0 or 1 and say thank you if it's one of them. Your program should work with any text.

Input:

Enter a number (0 or 1): 0

Output:

Thanks!

Input:

Enter a number (0 or 1): bloublou

Output:

I said 0 or 1!

3. Multiples

- Make a program which two numbers from user and check if the first one is a multiple of the second one. (hint: the '%' operator)

Input:

Enter a number: 10

Enter a number: 2

Output:

Yes, 10 is a multiple of 2 because 2 x 5 = 10

Input:

Enter a number: 7

Enter a number: 5

Output:

No 7 is not a multiple of 5.

4. Leap year

- Make a program which ask the year to a user and tell if this year is a leap year. Here is all information about leap year:

"Every year that is exactly divisible by four is a leap year, except for years that are exactly divisible by 100, but these centurial years are leap years if they are exactly divisible by 400. For example, the years 1700, 1800, and 1900 are not leap years, but the years 1600 and 2000 are." (https://en.wikipedia.org/wiki/Leap_year)

Input:

Enter a year: 2001

Output:

This is a not a leap year.

Input:

Enter a year: 1600

Output:

This is a leap year.