

Prakhar Saxena

Professor Mark Boady

CS 171

February 3, 2017

## Leap Year Checker

### ❖ User Manual

- As soon as one compiles and runs the program, the first line to be seen would be: “Enter the year”



A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.exe'. The command prompt displays the text 'Enter the year' followed by a cursor on the next line.

- The user is expected to enter the corresponding value.
- The user then won't be required to enter anything in the program.



A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.exe'. The command prompt displays the text 'Enter the year', followed by the user input '2016', and then the program output 'LEAP YEAR' and 'Press any key to continue . . .'. A cursor is visible on the line 'Press any key to continue . . .'. The rest of the window is black.

- The program would print out whether the entered year is a leap year or not.

❖ System Manual

- There is just 1 function I defined, and a main.
- The function I defined is **leap\_year()**:
  - It returns a Boolean data type value.
  - It takes an integer data type value as an argument.
  - There is just if else statement in the function:
    - The condition they check is for leap year:
      - ◆ `(year % 4 == 0 && year % 100 != 0) || year % 400 == 0`
    - If the condition is true, the function returns true, if it's not it returns false.