# Random Password Generator Documentation

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## Purpose

This project is designed for the Advanced Python Class by Muzaffar Ali. The program calculates the total number of days a person has lived based on their age and the current date.

## Requirements

- time: The time library provides various time-related functions. In this code, it is used to get the current local time.

- calendar: The calendar library provides functions related to calendar operations. In this code, it is used to check if a year is a leap year.

## Environment Setup

No special environment setup is needed for this program as it only uses Python's standard library.

## Execution

1. Save the provided code in a file named `days\_lived\_calculator.py`.  
2. Open a terminal or command prompt.  
3. Navigate to the directory where `days\_lived\_calculator.py` is saved.  
4. Run the program using the command:  
```  
python days\_lived\_calculator.py  
```

## How It Works

1. Function `judgeLeapYear(year)`:  
 - Uses the `isleap` function from the calendar library to check if the given year is a leap year.  
  
2. Function `month\_days(month, leap\_year)`:  
 - Returns the number of days in the given month, considering whether it is a leap year.  
 - Parameters: `month` (int): The month number. `leap\_year` (bool): Whether it is a leap year.  
  
3. User Input:  
 - Prompts the user to enter their name and age. The age input is validated to ensure it is an integer.  
  
4. Calculate Total Days Lived:  
 - Gets the current local time.  
 - Calculates the start and end year based on the user's age.  
 - Loops through each year and month to calculate the total number of days lived.  
  
5. Print Result:  
 - Prints the user's age in years, months, and days.

## Output

The program calculates and prints the total number of days a person has lived based on their age and the current date. The output includes the age in years, months, and days.