

## EECS 12 Fall 2013

### Assignment 4 Due: Nov 6th, 6:00PM

#### Calendar Generator

Problem: Write a program to accept a year between 1800 and 2099, and a month between 1 and 12 as two parameters, then display the month calendar in a specific format.

Your program should execute the following steps:

1. Ask user to input a year between 1800 and 2099 or -1 (to terminate the program). If a user enters an invalid number, it should print out notification on the screen to let user type again.
2. Ask user to input a month between 1 and 12. Data check is also required as step 1.
3. Your program needs to calculate the day of the week for each day within the month.
4. Your program needs to display the calendar in a well-formatted table.
5. Your program needs to fill in the blank space for the first week and the last week.
6. Each column in the calendar is 3 characters wide. Both header and days need to be aligned correctly.

#### Output Example:

This program displays a calendar for a given year and month

Enter year (YYYY 1800 - 2099) (-1 to quit): **2013**

Enter month (1 - 12): **12**

First day is: **Sunday**

**December 2013**

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

This program displays a calendar for a given year and month

Enter year (YYYY 1800 - 2099) (-1 to quit): **1000**

Invalid year entered.

Enter year (YYYY 1800 - 2099) (-1 to quit): **-1**

#### Grading Criteria: 60 point total

- 5: Successfully check user input of year and month.
- 5: Successfully print the correct month title.
- 10: Successfully calculate the leap year calendar
- 15: Successfully calculate and print the day of the week for the first day of the month.
- 25: Successfully print out the calendar in the correct format

**Submission:** Submit your homework before 6pm, Nov 6th (Wed) to EEE Dropbox. Submit only the python source file, with file name "hw4.py".