

CSCI 121 Project 06

Introduction

Purpose

This project will help the students to reinforce the knowledge from Chapter 6 of the textbook.

Objectives

1. Understand and apply top-down design concept.
2. Implement the functions according to specified requirements.
3. Understand and apply file output stream to output information to file.
4. Test and debug the functions.

Problem Description

Project 6 is a continuation of project 5, which will allow the user to print out a calendar for any given year to the screen and to a local file. A template `.cpp` file will be given. The template file already implements the functionality to print out calendar on screen. Students just need to understand the template file and implement/modify a couple of other functions. Please study the template file first. It contains the solution to project 5. Once you understand the template file and **answer 3 questions** in it, you will understand more about project 5 and this project 6. Due date will be announced on Blackboard.

Sample Run

Note: I use `▢` symbol to show user inputs, you do **NOT** need to do `▢` in your program.

```
*****
*                               *
*           Menu                 *
* 1. Query a date                *
* 2. Print calendar of a given month *
* 3. Print calendar of a given year  *
* 4. Print calendar of a given year to file *
* 5. Quit                        *
*****
Please enter your choice: ▢1

Enter the date in form of mm dd yyyy: ▢10 25 2016
```

October 25 , 2016 is Tuesday

```
*****
*                               Menu                               *
* 1. Query a date                                                    *
* 2. Print calendar of a given month                                *
* 3. Print calendar of a given year                                  *
* 4. Print calendar of a given year to file                          *
* 5. Quit                                                            *
*****
```

Please enter your choice: 2

Enter the month and year in form of mm yyyy: 10 2016

October, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
						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	31					

```
*****
*                               Menu                               *
* 1. Query a date                                                    *
* 2. Print calendar of a given month                                *
* 3. Print calendar of a given year                                  *
* 4. Print calendar of a given year to file                          *
* 5. Quit                                                            *
*****
```

Please enter your choice: 3

Enter the year as yyyy: 2016

January, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
					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

February, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
	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					

March, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
		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	31		

April, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
					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

May, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
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	31				

June, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
			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

July, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
					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
31						

August, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
	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	31			

September, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
				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	

October, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
						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	31					

November, 2016

SUN	MON	TUE	WED	THU	FRI	SAT
		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
```

December, 2016

```
SUN MON TUE WED THU FRI SAT
      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 31
```

```
*****
*                               *
*           Menu                *
* 1. Query a date                *
* 2. Print calendar of a given month *
* 3. Print calendar of a given year  *
* 4. Print calendar of a given year to file *
* 5. Quit                        *
*****
Please enter your choice: 4
```

Enter the year as yyyy: 2016

Calendar of year 2016 has be print to file hzeng.txt

```
*****
*                               *
*           Menu                *
* 1. Query a date                *
* 2. Print calendar of a given month *
* 3. Print calendar of a given year  *
* 4. Print calendar of a given year to file *
* 5. Quit                        *
*****
Please enter your choice: 5
```

Thank you for using FHSU's calendar program!