CASE STUDY

2

Generating a Calendar

If you are a C or C++ programmer, then you know displaying the calendar of a particular year is a tedious job. You would have to write at least 75 lines of code to do the job. But Python has a calendar module with pre-defined functions which makes this task very-very simple. The program given below prints the calendar of an arbitrary year as entered by the user.

```
# Program to print the Calendar of any given year

import calendar
y = int(input("Enter the year: "))
m = 1
print("\n******** CALENDAR *******")
Cal = calendar.TextCalendar(calendar.SUNDAY)
# An instance of TextCalendar class is created and calendar. SUNDAY means that you
want to start displaying the calendar from Sunday
i=1
while i<=12:
    Cal.prmonth(y,i)
    i+=1
#prmonth() is a function of the class that prints the calendar for given month and year
```

OUTPUT

```
Enter the year: 2017
******** CALENDAR *******
    January 2017
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 31

    February 2017
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
```

```
     March 2017
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 31

     April 2017
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

      May 2017
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 31

     June 2017
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

     July 2017
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 31

     August 2017
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 31

   September 2017
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

    October 2017
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 31

   November 2017
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

   December 2017
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
31
```