**See Page 607 Business P10.22**

The attached main program is just a very rough cut to give you a bit of an idea of how the program is to work.

You will want to add a good user interface that would allow the user to get the appointments for, say, a specific date.

It should also allow this for, perhaps, **today**, **tomorrow**, or **the next 7 days.**

It might look something like this:

Get appointments for:

1. Today
2. Tomorrow
3. Seven days (including today)
4. A specific date

If a 1, 2 or 3 is entered, the appointments are listed. (It does **not** ask for today’s date …)

If a 4 is entered, then the user is prompted for the desired date, and the appointments are then listed.

It would be good if your program included a check for valid dates. In other words, the user could not enter 2/29/2017, since February does not have 29 days next year.

Use this program to show off everything that you can do with Python!

**MODIFICATIONS**

I decided that there really should be a time included, too. See attached for a sample input file. Like this …

OneTime,4,10,2016,12:00 AM,Leash's Birthday

A file in CSV (comma-separated value) format is no different than a .txt (text) file. The csv extension simply tells a spreadsheet program (like Excel) how it should be imported. So if you specify the name of the file is whatever.csv, you can use the same file input and output steps that you have used before. Or you can rename the file from whatever.csv to whatever.txt.

Also, your Program 6 getData file should work just fine with this programming assignment, with just some modifications in terms of how each line is split up, the file name, etc. (That is one of the advantages of having getData as a separate file.) getData should open the file, gather the data, and then use a return statement to send it back to the main program.

Also note that you should have a superclass for Appointment, and then subclasses for the variations (e.g. Daily, OneTime, Monthly).

Again you will have a file with the main function, one [or more] files with the classes and a file for getData.

***Sample run***

Enter the month (0 to quit): 1

Enter the day: 1

Enter the year: 2014

Enter the month (0 to quit): 1

Enter the day: 1

Enter the year: 2015

Daily appointment starting (01/15/2014): Task Two

Enter the month (0 to quit): 5

Enter the day: 1

Enter the year: 2016

Daily appointment starting (01/01/2016): Task One

Daily appointment starting (01/15/2014): Task Two

Enter the month (0 to quit): 11

Enter the day: 21

Enter the year: 2015

Daily appointment starting (01/15/2014): Task Two

One time appointment (11/21/2015): Task Four

Enter the month (0 to quit): 0

Process finished with exit code 0

*##  
# Demonstrate the various appointment classes.  
#***from** appointment **import** Daily, Monthly, Onetime  
  
*# Create a list of appointments.*appList = []  
appList.append(Daily(1, 1, 2016, **"Task One"**))  
appList.append(Daily(1, 15, 2014, **"Task Two"**))  
appList.append(Monthly(12, 15, 2016, **"Task Three"**))  
appList.append(Onetime(11, 21, 2015, **"Task Four"**))  
appList.append(Monthly(4, 2, 2015, **"Task Five"**))  
appList.append(Onetime(12, 4, 2016, **"Task Six"**))  
  
*# Read a date from the user and display all of its appointments until the user  
# decides to quit.*month = int(input(**"Enter the month (0 to quit): "**))  
**while** month != 0 :  
 day = int(input(**"Enter the day: "**))  
 year = int(input(**"Enter the year: "**))  
  
 *# Find all of the appointments on the entered date.* **for** app **in** appList :  
 **if** app.occursOn(month, day, year) :  
 print(app)  
   
 month = int(input(**"Enter the month (0 to quit): "**))