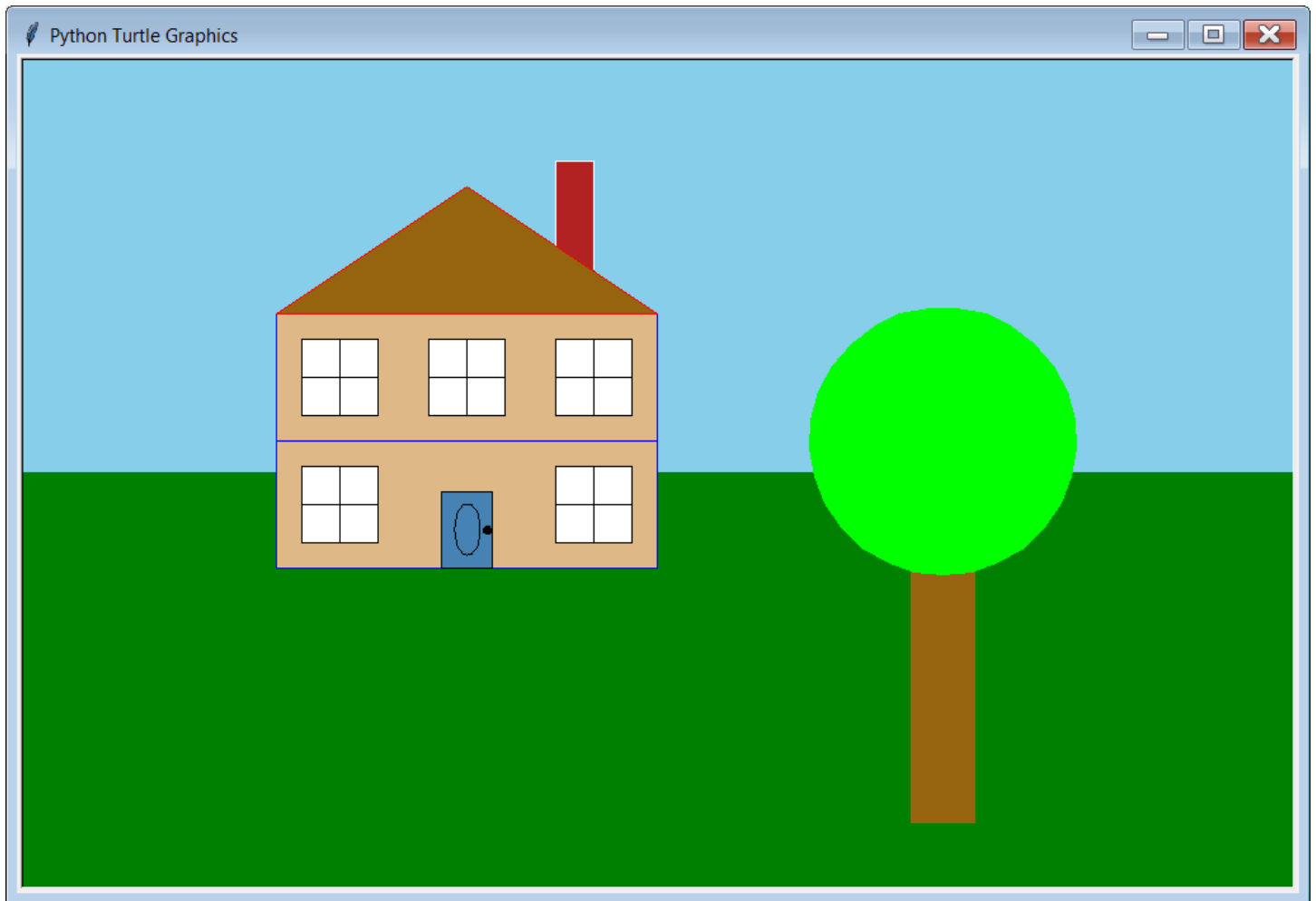


<b>Computer Science 1</b>	<b>Lab 09A</b>
<b>The Modular Graphics Project</b>	<b>Open Ended Major Python Project</b>
	<b>90, 100, 110 and 0 Point Versions</b>
<b>Assignment Purpose:</b> This program requires knowledge of modular programming and reviews graphics.	

You need to create an original graphics program similar to the output below.



**NOTE: You may NOT draw this or any other house!**

Your graphics program must be something original that YOU create. The program should consist of several procedures (no less than 4) similar to program examples **GraphicsProcedures04.py**, **GraphicsProcedures05.py**, **GraphicsProcedures08.py**, **Library02.py** or **Library03.py**. Your graphics program must show a considerable amount of effort. It also must be school appropriate!

**NOTE: This project requires the use of “Traditional Graphics” which was introduced in Chapter 6! You may not do this assignment using “Turtle Graphics” or “ASCII Text Graphics”.**

## 90 Point Version

The “**MAIN**” section of the program calls several user-defined procedures, similar to program example **GraphicsProcedures04.py** (or **GraphicsProcedures05.py** or **GraphicsProcedures08.py**).

There needs to be a minimum of 4 user-defined procedures.

The entire program is contained in the **Lab09Ast.py** file.

## 100 Point Version

The “**MAIN**” section of the program calls several user-defined procedures, which are imported from a separate *library* file which you need to create. The file **Lab09Ast.py** will only contains the following:

- 2 **import** statements (one for **Graphics**, the other for the library that you create)
- 1 **beginGrfx** statement and 1 **endGrfx** statement
- several procedure calls (minimum of 4)

All procedure definitions need to be placed in your library file, similar to the organization of program example **Library02**. Make sure this file is also saved in the **Lab09A-ModularGraphicsProject** folder.

## 110 Point Version

The “**MAIN**” section of the program calls several user-defined procedures, which are imported from multiple separate *library* files, all of which you need to create. The file **Lab09Ast.py** will only contain the following:

- Multiple **import** statements (one for **Graphics**, the others for the libraries that you create)
- 1 **beginGrfx** statement and 1 **endGrfx** statement
- several procedure calls (minimum of 6)

All procedure definitions need to be logically placed in your different library files, similar to the organization of program example **Library03**. Make sure that all library files are also saved in the **Lab09A-ModularGraphicsProject** folder.

## 0 Point Version

You will earn a 0 on this major project if any of the following are true:

- Your program is not school appropriate.
- Your program does not show sufficient effort.
- Your program is a house
- Your program uses “Turtle Graphics” or “ASCII Text Graphics”.
- Your program has all of the graphics commands in the “**MAIN**” section of the program, similar to **GraphicsProcedures03.py**, missing the whole point of the lab (MOST COMMON).