LAB 7 - RED BLACK TREE

There's many instances of red-black trees available throughout the internet for a variety of languages. Pick one and include it with your source code if the language you use does not have a built in one.

Using a red-black tree, build a sorted dictionary. This dictionary should be able to insert key/value pairs, retrieve values associated with keys, delete keys, and inform you whether or not a key exists in the dictionary. You do not need to do any error checking to determine if a key already exists when someone attempts to retrieve/delete an existing key.

Demonstrate that your sorted dictionary works by writing your program to insert into the dictionary the following key/value pairs:

Key	Value
hello	world
goodbye	everyone
name	student
occupation	student
year	2016
gpa	4.0
lab	yes
assignment	no
department	CS

Then, retrieve the value of gpa and department and display it on the screen.