

## Assignment 5

BCH5887

Due 03/16/10

Please put your program in new directory called assignment5 in your homework directory. Please also include your name as a comment on the second line of your program.

Write a program that will input a pdb file, center it (based on the geometric center), and output the centered pdb file. You should discard all lines that do not begin with the string "ATOM". This program will require everything you've learned so far: including reading a file, parsing a string, loops, and conditional statements. Please be sure to comment your work. Also, the data should be stored inside your program as a list of dictionaries. In other words, the atom data would look something like:

```
atomlist=[ {'rtype': 'ATOM', 'atomnumber': 1, ...},  
            {'rtype': 'ATOM', 'atomnumber': 2, ...},  
            ...]
```