# Programming Project 0 (Advanced)

Implement the following Python "magic methods" in your `Molecule` class:

| name | returns | args | called by[1] | description |
|---|---|---|---|---|
| `__len__` | `int` | | `len(mol)` | return the "length" (number of atoms) of a molecule instance |
| `__str__` | `str` | | `print(mol)`, `str(mol)` | represent the contents of a `Molecule` object as a string in `.xyz` format |
| `__iter__` | iterator | | `for _ in mol` | iterates over `(str, numpy.array) tuples`, each of which contains the atomic symbol and Cartesian coordinates of an atom in the molecule |
| `__add__` | `Molecule` | `Molecule` | `mol1 + mol2` | returns a new molecule object containing the atoms of both molecules |

[1] Assume `mol`, `mol1`, and `mol2` are all instances of your `Molecule` class.