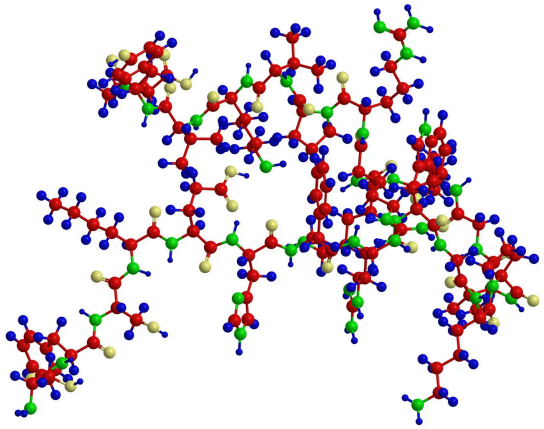
Proteins Lab



Objectives:

1. Learn how to create classes
2. Become familiar with creating new objects and storing them in Arrays

Lab Description

Instructions for completing the lab are in the starter files below

- ProteinLevel1StarterFiles.zip
- ProteinLevel2StarterFiles.zip

When you run your finished **`AminoAcidChain.java`** your output should match the format below. Note the output could vary.

```
----jGRASP exec: java AminoAcidChain
Enter the length of the amino acid chain: 10

Name: Leucine, Code: V, Is Polar: false, pI: 5.97
Name: Valine, Code: V, Is Polar: false, pI: 5.68
Name: Leucine, Code: K, Is Polar: false, pI: 9.74
Name: Serine, Code: V, Is Polar: false, pI: 5.97
Name: Lysine, Code: S, Is Polar: false, pI: 5.97
Name: Serine, Code: V, Is Polar: false, pI: 9.74
Name: Valine, Code: K, Is Polar: false, pI: 5.68
Name: Alanine, Code: L, Is Polar: true, pI: 6.0
Name: Valine, Code: V, Is Polar: true, pI: 5.68
Name: Serine, Code: A, Is Polar: false, pI: 5.98
VVKVSVKLVA
```

When you run your finished **`ProteinDriver.java`** your output should match the format below. Note the output could vary.

```
----jGRASP exec: java ProteinDriver
SLVAVLAGAKVLLKGASLASAKGLGALKVLGLAAGASLASKKKG
```

Assignment Name `AminoAcid`

Submit a zip file containing the completed **`AminoAcid.java`, `AminoAcidRunner.java`**

Assignment Name `Protein`

Submit a zip file containing the completed **`AminoAcid.java`, `Protein.java`, and `ProteinRunner.java`.**