1. Write bash script that contains an array with these amino acids:

Methionine

Leucine

Cysteine

**Alanine** 

Valine

**Tyrosine** 

**Proline** 

Use a for loop to print each item and its length (1 pt).

```
bsavalia@Birava:~/BINF2111/BINF2111/data$ nano for_loop.sh
bsavalia@Birava:~/BINF2111/BINF2111/data$ bash for_loop.sh
Methionine has length 10
Leucine has length 7
Cysteine has length 8
Alanine has length 7
Valine has length 6
Tyrosine has length 8
Proline has length 7
bsavalia@Birava:~/BINF2111/BINF2111/data$
```

2. Write a bash script that uses a while loop to read through a given file. Print each line in the file and the character count of that line (1 pt).

```
bsavalia@birava:~/BINF2111/BINF2111/Gatas hano white_loop.sh
bsavalia@birava:~/BINF2111/BINF2111/Gatas la

COV_Sprotein.faa answer_q10.txt empty_lines.txt for_loop.sh lab3_EFMCounts.tsv lab6 name_game.csv read.sh

COV_Sprotein.faa bonus7.sh eukaryotes_tsv goldmedal.csv lab6 name_game.csv.txt readme.md

Lab3_tara_gz converted.fasta eukaryotes_zero.tsv header.sh loop.sh name_game.tsv string.sh

RW1.fina count_number.sh example0.fasta if_for.sh loop2.sh plUG9c.fasta toxt_file.txt

Top5_trendingCPUlang.csv doppelganger_names.txt fixed.fq lab3_EFMCounts.csv make_txt.sh

Top5_trendingCPUlang.csv doppelgang.csv doppelganger_names.txt fixed.fq lab3_EFMCounts.csv make_txt.sh

Top5_trendingCPUlang.csv doppelganger_names.txt fixed.fq lab3_EFMCounts.csv make_txt.sh

Top5_trendingCPUlang.csv doppelgang
```

3. Write a bash script for the following pseudo code (1 pt):

Counter variable equal to 0

Quote variable equal to "This script will run again"

Until counter is not less than 10 Print quote

```
Set quote equal to quote + " and again" 
Increment counter (add 1) 
End until
```

Print "Until it is done"

```
bsavalia@Birava:~/BINF2111/BINF2111/data$ bash until_loop.sh
This script will run again and again
This script will run again and again and again
This script will run again and again and
```

4. Write a bash script that contains a function that prints the following: your name, your username, the date/time, and your current directory (1 pt). Make sure you call the function!

```
bsavalia@Birava:~/BINF2111/BINF2111/data$ touch function.sh
bsavalia@Birava:~/BINF2111/BINF2111/data$ nano function.sh
bsavalia@Birava:~/BINF2111/BINF2111/data$ bash function.sh
Name: Birava Savalia
Username: bsavalia
Date/Time: Thu Sep 25 15:06:26 EDT 2025
Current Directory: /home/bsavalia/BINF2111/BINF2111/data
bsavalia@Birava:~/BINF2111/BINF2111/data$
```

5. Write a bash script that contains a function that will add any two numbers together. Within the function, print both numbers and the sum. Return 0 to signify that the function was successfully executed. Call the function three separate times, using different numbers each time (1 pt).

```
bsavalia@Birava:~/BINF2111/BINF2111/data$ nano adding.sh
bsavalia@Birava:~/BINF2111/BINF2111/data$ bash adding.sh
First number: 55
Second number: 6
Sum: 61
______
First number: 12
Second number: 60
Sum: 72
_____
First number: 100
Second number: 250
Sum: 350
_____
bsavalia@Birava:~/BINF2111/BINF2111/data$
```

6. Make a public GitHub repository called BINF-2111 (or BINF2111, it's up to you). Make the following directories in your repository (2 pts):

Labs

Notes

Lectures

Resources

**Practice Scripts** 

There should be a readme file and at least 2 files in each directory (1 pt). Additionally, the repo's readme should contain your name, the semester we are in (Fall 2025), your major, and your year (freshman, sophomore, junior, senior, fifth year) (2 pts). (5 pts total)

https://github.com/biravasavalia/BINF\_2111.git