

Session 6 Recitation

- 1) What is the value of the expression `2 * (3 + 4)` in Python? What happens when you remove the parentheses?
- 2) What is the square of 128 using Python? What is the square root of 128?
- 3) What is the type of the result of the expression `1 + 2.0 + 3`?
- 4) How could you truncate and round the number 6.62690876557 to three decimal places?
- 5) How can you convert 4 from an integer to a floating point number?
- 6) Take the DNA sequence in `W_5lines.fa` on D2L. Figure out how to create a character string in Python equal to this DNA sequence. Now figure out how to print out only the first nucleotides. Print out the last three nucleotides.
- 7) Take the DNA sequence from #6 and print out its length.
- 8) Take the DNA sequence and replace all the 'T's with 'U's. Save it to the same variable name.
- 9) Take the DNA sequence and determine how many times the motif 'CCCC' is present. You will need to look up the function to do this.
- 10) Take the DNA sequence and determine how to print out the first instance of the motif as well as the five nucleotides before and the five nucleotides after it.
- 11) Take the character string "Genome, Chromosome, Position, Reference, Alternate, Score" and make a new string variable. Figure out how to split the string so you have a list of items. Make sure you don't have extra spaces in the result.