04: SPECIAL TOPICS IN STANDARD PYTHON

1: How are strings the same as lists? How are they different?

2: Why are list comprehensions useful?

3: What are the problems with using lists as vectors and matrices?

4: Write a `try/except` block (or blocks) that will tell you if the required scientific packages (NumPy, SciPy, and matplotlib) are installed and working on your system. *Bonus: if they are installed, print out the name and version number for each.*

5: Write a function that performs a dot product using `enumerate`. Write a second function using `zip`.