Codelet 1: PyTorch Basics

The due date for this codelet is **Friday, Jan 31 at 11:59PM**.

Introduction

The following is to help get you started working with PyTorch. You should draw on the textbook (Chapter 2) and the PyTorch documentation.

Outline

- ☐ Grading
- ☐ Exercises
    - ☐ creating tensors
    - ☐ reshaping tensors
    - ☐ indexing with slicing
    - ☐ sum
    - ☐ explain broadcasting

Your assignment

Your task is to:

1. Download `codelet1.zip` from the course website and open it. You will find these instructions and `codelet1.py` which has scaffolding for you.
2. Complete each of the exercises using the scaffolding provided in `codelet1.py` and include a file called `codelet.pdf` with your answer to the broadcasting question.

Grading

When assessing your code, satisfactory achievement is demonstrated, in part, by:

- Simple and clear code
- Code passes relevant tests
- Explanation extends beyond repeating the textbook/material online

Exercises

For the exercises not mentioned below, you should find sufficient detail in their docstrings.

Explain broadcasting

Explain briefly (no more than 100 words) how broadcasting works with PyTorch. Provide concrete examples to ground your explanation.