**Defining variables**

Unlike a constant, a variable's value can be modified. This will be quite useful when we want to train a model by updating its parameters. Constants can't be used for this purpose, so variables are the natural choice.

Let's try defining and working with a variable. Note that Variable(), which is used to create a variable tensor, has been imported from tensorflow and is available to use in the exercise.

**Instructions**

**100 XP**

* Define a variable, A1, as the 1-dimensional tensor: [1, 2, 3, 4].
* Print A1. Do not use the .numpy() method. What did this tell you?
* Apply .numpy() to A1 and assign it to B1.
* Print B1. What did this tell you?

# Define the 1-dimensional variable A1

A1 = Variable([1, 2, 3, 4])

# Print the variable A1

print(A1)

# Convert A1 to a numpy array and assign it to B1

B1 = A1.numpy()

# Print B1

print(B1)