This is a lab for you to design a MATLAB class. This week we will only handle scalars of this class. We will extend the lab next week to handle arrays.

The MATLAB class to be implement in these two labs is called **Vec3**. Below are the tasks in this lab: assignment:

- The three properties are **x**, **y**, and **z**.
- The constructor: It should accept the following types of inputs:
 - No input argument (as a default constructor): A single object for point (0,0,0) is created.
 - Three input arguments (numerical scalars for now) for **x**, **y**, and **z** elements. The output is an object of **Vec3**.
- The **norm** function (for computing the vector length).
- The inner_prod function. It takes two inputs of class Vec3 and return their inner product as a scalar double.
- The disp function: Show the object in the form (x, y, z).
- Operator overloading functions: plus and minus, which does addition and subtraction of two Vec3 objects, respectively.

Keep what you do in this lab as a reference for next lab.