Due Friday, 24 March 2023, by 11:59pm to Gradescope.
+20 extra-credit points total.

**Submission instructions:** Generate a .pdf file of the jupyter notebook. Make sure all your answers and graphs are clearly visible. Submit it to the assignment called HW7 on Gradescope

1. (20 E.C. points) **Z-transform and Digital Filters: Programming Assignment**
   Coding Assignment Instructions:

   (a) Find the hw7_coding.zip file on BruinLearn. Download and unzip it.

   (b) The zip contains several files. You will only be editing "hw7.ipynb".

   (c) Make sure you only make changes in the code where specifically asked of you by Python comments.

   (d) In addition to code, the assignment has 9 questions written in markdown for you to answer within the notebook.