Homework 1

- Write a Python program that takes as input a **numpy** N*M matrix and applies the Zoom-In operation (***k*x**, with ***k*** entered by the user via the input function) and, subsequently, performs replication-type interpolation. Specifically:
  - Define the Zoom-In function (***def* Zoom-In(x)**).
  - Define the Interpolation function (***def* Interp(x)**)
  - Create the numpy array ***m*** of random values **between 0 and 255** of size **N*M**
  - Execute the Zoom-In function (***m_z = Zoom-In(m)***)
  - Execute the Interp function (***m_I = Interp(m_z)***)
  - Print the result (***print*(m_I)**)