ECON 8320 – Tools for Data Analysis
Assignment 3 [25 points]

Classes provide a great way to bundle information and functions. We will create a class to record student academic information:

1. The class should contain attributes for recording

   - Name (First and Last separately)
   - Date of Birth
   - High School (name and city separately)
   - Degree program
   - Address
   - Grade history. This should be of a type that allows the storage of the course name, grade in the course, the number of credits assigned to the course, and the semester and year taken.

2. The class should include methods to

   - Calculate cumulative GPA
   - Calculate semester GPA
   - Count the number of credits a student has accumulated
   - Add a course to the grade history
   - Determine scholarship eligibility based on the following GPA cutoffs: ≥ 3.9 for a full-ride, ≥ 3.63 for a half-tuition scholarship, and ≥ 3.3 for a 1/4 tuition scholarship. All GPA's below the minimum scholarship cutoff receive no reward.