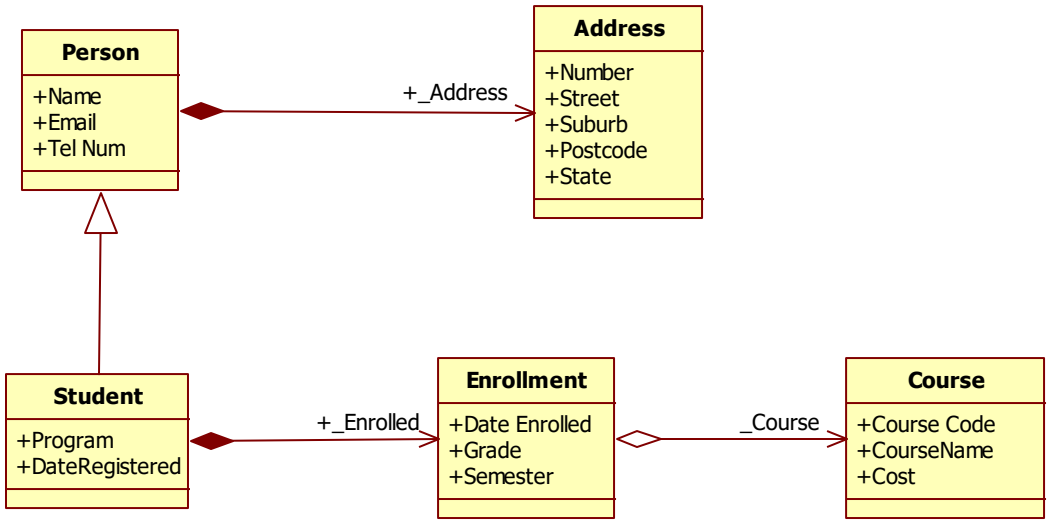
Session 15– Searching and Sorting (Assessable Lab Exercise)



Using the above Student class you created in session 13, implement the following:

1. Create a method to search for an Array of ten Student objects using a Linear Search algorithm (You will have to use the Equals ( ) or the '==' overloaded operator of the Student (which you created earlier) to compare the students in the array for equality.
2. Create another method to search for an Array the above student objects using a Binary Search algorithm. Use the Array. Sort ( ) to sort the students by Name, before applying the Binary Search.
3. Create a method to Sort the above array of Students instances in ascending order of Name using a Bubble Sort algorithm. Use the overloaded relational operators of the Student class you implemented in an earlier Lab exercise to make the Comparisons.
4. Document your test data to prove that your above methods work

On completion of the above Lab Exercise, zip and upload the project with the other session assessable lab projects at the end of the semester.