**Homework 1 Design**

1. Should include the Standard Library and other libraries
2. Before Main
   1. make a struct to hold student ID # and Student Name
   2. Make another struct to hold Course ID # and name.
   3. Make a struct that holds the list of students. Max of 100
      1. Void function for adding student and ID.
      2. Make sure to limit it to 100
   4. Make a struct that holds the list of courses. Max of 25
      1. Void function for adding courses and ID
      2. Limit to 25
   5. Make a struct that is in charge of grades of a student.
      1. 1\*10\*4=40\*100=4000<- limit I need for the amount of total grades
      2. Going to be void function
      3. Connect with students and courses
   6. Make a struct that is in charge of the class grades.
      1. Limit to 20
3. In Main
   1. Print out the menu
   2. Use a switch statement for the options
      1. In the switch statement each case with call a certain function.
      2. If the number entered is invalid, prompt saying invalid and close program
4. Adding Student Function
   1. Use call by reference in parameter list
   2. the struct
   3. Ask for student name and id input
   4. Store them in the struct students
5. Adding course function
   1. Use call by reference in parameter list(struct)
   2. Ask for course name and id
   3. Store in struct courses
6. Make a print student function
   1. Also call by reference
   2. Use a for loop to print out all the names with the corresponding ids
   3. Should stop when it hits 100 or end of list
7. Make a print course function
   1. Use call by reference also
   2. Use for loop to print out all the courses with the corresponding id
   3. Stop it when it reaches the end of the list or 25

hello