
[Implement all the problems using Python and FORTRAN]

Problem 1: Write a function with name **result_details()** that takes input of your each courses and their relevant scores (fictitious). After taking user inputs for Course-code, section, score of all the enrolled courses, the function **result_details()** should produce an averaged score over all the courses you are enrolled in. Consider at least four courses in your implementation and use iterative process. Again, you MUST use fictitious scores, not any of your true scores.

Problem 2: Write a function that takes input a, b, c from users for the quadratic equation $ax^2 + bx + c = 0$ and solve for the roots of the equations. The code should also be able to check if the roots are complex or real and report an error statement ***Roots are complex*** for complex roots.

Problem 3: Take a list (array) of mixed elements (**For Python:** integer, float, strings etc., and **For FORTRAN:** integer, float) and return only the integers sorted and stored in another list. Your code should print both the list (input and modified).

Problem 4: Create a list (array) of random numbers of length 10. Now, write a function that takes this list as an input and perform a cumulative sum over the elements. For instance, if you have [2 5 9] as the input list the cumulative sum would be [2 7 16]. Take this new list and apply list comprehension approach to calculate the area of a circle of radius with number divisible by 3. If you don't have any number divisible by 3, your code should print saying that ***radius not found***.