**A blue and yellow logo

Description automatically generated with low confidence San Francisco Bay University**

**Lab 9 Pointer (cont.) in C Language**

**Due day: 3/31/2023**

**Instruction:**

1. **Push the source code to Github platform.**
2. **Please follow the code style rule like programs on handout.**
3. **Overdue homework submission could not be accepted.**

**4. Takes academic honesty and integrity seriously (Zero Tolerance of Cheating & Plagiarism)**

1. Write program to delete duplicate elements in an array

*Output:*

*Enter size of array: 5*

*Enter each element for the given array: -1 0 -1 0 2*

*Results: -1 0 2*

1. Find a program to get all permutations from a series of different numbers

*Output:*

*Enter each element for the given array: 5 8 7*

*All permutations: 587 578 857 875 758 785*

1. Create a program to print the following triangle pattern

*Output:*

*Enter the number of lines you want to print: 7*

*Results:*

*1*

*2 3*

*4 5 6*

*7 8 9 10*

*1112 13 14 15*

*16 17 18 19 20 21*

*22 23 24 25 26 27 28*

1. Write a program to check whether two given strings are [anagram](http://en.wikipedia.org/wiki/Anagram)of each other or not. An anagram of a string is another string that contains same characters, only the order of characters can be different. For example, “abcd” and “dabc” are anagram of each other.

*Output:*

*Enter the first string: abcd*

*And second string: dabc*

*Results: Yes*

1. Find a program to calculate the element frequency from an array

*Output:*

*Enter size of array: 5*

*Enter each element for the given array: 4 5 3 5 3*

*Frequency for each element: 4-1 5-2 3-2*

1. Work your way through the following code fragments. What would be printed? When you have decided, compile and run the program to check your answers. You will find it helpful, especially with some of the other exercises, to draw boxes representing the variables and arrows representing the pointers.







