**A blue and yellow logo

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

**Lab 4 Basic Programming Questions in C Language**

**Due day: 2/9/2023**

**Instruction:**

1. **Push the source code to Github or piazza 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. Find whether given number is a prime number or not.

*Output:*

*enter any number : 7*

*prime number?: Yes*

*Output:*

*enter any number : 4*

*prime number?: No*

1. Program to use bitwise AND operator between the two integers.

*Output:*

*Read the integers from keyboard: 8 4*

*The Answer after ANDing is: 0*

1. Print Fibonacci series for given number form keyboard input

*Output:*

*Read the integers from keyboard: 7*

*Fibonacci series: 0, 1, 1, 2, 3, 5, 8, 13*

1. Display sum of series 1+1/2+1/3+……….+1/n, which n’s value is from keyboard

*Output:*

*Read the integers from keyboard: 10*

*Sum of reciprocal of n: (1+1/2+1/3+……….+1/10)’s value*

1. Find the maximum number in a given size of array for each element keyed in from standard input device, assuming that 5-length of array is to save input values from keyboard

*Output:*

*enter elements for array: 5 4 7 1 2*

*maximum number = 7*

1. Find sum of two matrices, assuming that both matrices are 3x2 array and initialing them from keyboard, and then print sum array out.

*Output:*

*Enter value for 1 matrix: 1 2 3 4 5 6*

*Enter value for 2 matrix: 4 5 6 1 3 2*

*Sum of matrix is*

*5 7*

*9 5*

*8 8*

1. Find average value in an array, which length of array is from the keyboard and each element in array from keyboard as well.

*Output:*

*Enter length of array: 5*

*Enter each element in array: 11 12 13 14 15*

*Average value in array: 13*