**A blue and yellow logo

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

**Lab 3 Basic Programming Questions in C Language**

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

**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. Write a program to read-in numbers (integer) from keyboard and save them to an array, and then sort them ascendingly by bubble sorting method. After that, print them out

*Output*

*Enter a number of array’s size for a series of numbers saving: 5*

*Enter a series of numbers: 5 6 2 7 1*

*After sorting, output sequence: 1 2 5 6 7*

2. It is similar as above question. And just print ascendingly sorted odd numbers first and followed by sorted even numbers

*Output*

*Enter a number of array’s size for a series of numbers saving: 5*

*Enter a series of numbers: 5 6 2 7 1*

*After sorting, output sequence: 1 5 7 2 6*

3. If there is a pancake and taking one cut, it will become 2 pieces. Of course, taking two cuts will create 4 pieces. Write a program to calculate how many pieces can be gotten if taking n cuts

*Output*

*Enter how many cuts you want: 2*

*Pieces will be: 4*

*Output*

*Enter how many cuts you want: 3*

*Pieces will be: 7*

4. Write a program to calculate how many 1s is for a decimal number as input arguments

*Output*

*Enter decimal number: 15*

*There are 4 ones in given decimal number*

Notice that 15’s binary number is 1111