**Assignment-1:**

**Example: write an algorithm for finding average of 3 numbers.**

1. Start.
2. Read 3 numbers a,b,c.
3. Compute sum = a+b+c.
4. Compute average = sum/3.
5. Print average value.
6. Stop.
7. **Write an algorithm for finding Fibonacci series.**

*The Fibonacci numbers are the numbers in the following integer sequence:****0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, ……..***

1. **Write an algorithm for checking palindrome number.**

A **palindrome number** is *a number that is same after reverse*. For example 121, 34543, 343, 131, 48984

1. **Write an algorithm for to find largest of 3 numbers.**
2. **Write an algorithm for checking factorial of a number.**

Sum of multiplication of all the integers smaller than that positive integer. For example, factorial of 5 is 5 \* 4 \* 3 \* 2 \* 1 which equals to 120.

1. **Write an algorithm for checking given number is Armstrong number.**

Armstrong number is a number that is equal to the sum of cubes of its digits. For example 0, 1, 153, 370, 371 and 407 are the Armstrong numbers.

1. **Write an algorithm for string reverse.**
2. **Write an algorithm for finding pattern;**

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**Extra problems:**

1. Write an algorithm to swap two numbers using a third variable.
2. Write an algorithm to swap two numbers (without a third variable)
3. Write an algorithm to print even numbers between 2-100 using while loop
4. Write an algorithm to check palindrome.
5. Write an algorithm to check Normal year/Leap Year