CS3201: OBJECT ORIENTED PROGRAMMING LABORATORY

Topic: Arrays, Strings, Inline Functions, Function Overloading

Lab No. 2   **Feb 5th 2025**

Q1. Problem Statement:

An anagram of a string is another string with the same characters in a different order. Given a large text and a word, find all starting indices of substrings in the text that are anagrams of the given word. Implement an **inline function** `bool isAnagram(string &s1, string &s2)` to check whether two strings are anagrams efficiently.

Example:

Input:

text = "cbabadcbbabbcbabaabccbabc"

word = "abbc"

Output:

[0, 6, 9, 11, 16, 20]

Explanation:

All substrings starting at these indices are anagrams of "abbc".

Q2. Problem Statement:

Develop a function – "data_manipulate()" for data manipulation tasks. Include functions for converting integers to binary when the argument passed is an integer, converting doubles to scientific notation when the argument passed is of type double *or* float, and converting strings to uppercase when the argument passed is a string.