Issue Date: 07-Mar-2022

Objective:

- Works on issues related to templates code distribution in Files (.h/.cpp) and whole-part relationship implementation with generic classes.
- Working/Refresher with File Stream in text mode.

Task - 1: Generic Set Class

In this task, you are required to redo Practice-1: Task-4 considering the following constraints:

- While implementing the Class Template 'Set', if you need to use array anywhere then you are only allowed to use Generic Array class implemented in Practice-1: Task-3. Use of primitive
- You are free to add or subtract the data members for the Generic class 'Set' but you must have a solid reason for every data member. Needless to say, but to remind you, the public
- Distribute your code in separate .h/.cpp files as demonstrated in lecture.

At the end, compare both approaches for the implementation of generic class Set i.e., Practice-1-Task-4 vs Practice-2-Task-1. Which one do you think is better and Why?

Task - 2: File Size in Bytes

Write a function which returns the size of file in bytes.

Function Prototype int getFileSize(const String & fileName);

Task - 3: File Copy & Append

Write a function which copies the contents of one file and appends it into another file.

void copyFile(const String & sourceFileName, const String & destinationFileName);

Task - 4: Find Replace Utility

Function which finds all matching strings/substrings in file and replace all the occurrences with new

void findReplace(const String & fileName, const String & oldStr, const String & newStr);

Sample Run:

findReplace("test.txt", "Tested", "Testing");

File contents before "" (ested , "lesting");	
File contents before running findReplace Utility TestedTested Find Replace Utility	File contents After running findReplace
WhynotOKnot YEs ok. Tested	TestingTesting Find Replace Utility Let see how it goes. WhynotOKnot YEs ok. Testing
Tested: This Testing many many	Testing: This Testing may not be enough!