**Programming Project Report**

Name: William Taylor

Date: 4/17/20

**Academic Integrity Statement:** I pledge that I have neither given nor received unauthorized help on this programming assignment.

**Problem Statement:**

The goal of this project is to gain experience using vectors and sorting algorithms. This program takes in a “book” and outputs each word and how often it is repeated. This program required error handling for characters that aren’t letters.

**Design:**

I decided to use classes, vectors, and for loops to design my program. As well as sorting algorithms obviously. The pros are that this is what we are supposed to do, the cons are that I have never used sorting algorithms before.

**Implementation:**

I forgot to do my midpoint and started this project at 5pm of the day it was due. I started with code from my project 3. This was used to read in the text file. I extended this by adding sorting methods, and doing the required maneuvers with vectors.

A close up of a logo

Description automatically generated**Testing:**

I tested my program with the books we were supposed to use. Everything worked O.K. I got the program to count how many times each word appeared. But I didn’t understand the instruction on how to organize it. Nor did I have the time or energy to do it to the extend I would have liked to. Sample was the first 7 paragraphs of copperfield.

**Conclusions:**

The overall result was probably my worst project yet. I would say it was closer to success than failure. Next time I do this project I will work on it before my roommate tells me it exists, as well as make sure school work comes before actual work. This project took me 6 and a half hours to complete