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**W04 Prove: Articulate - Abstraction**

The highly digital world which we live in is possible thanks to the process of *abstraction*. Over the last year I’ve only begun to scratch the surface of understanding a few coding languages. I’m grateful for the highly talented people who came before me to foster an environment where learning is much easier. During this project we learned how to create a journal using C#. This journal utilizes a modular design, one of the many strengths of abstraction, to take multiple lines of code and simplify it where it can be referenced easily in the main body of the program.

Here’s an example of abstraction from my Journal program:

|  |
| --- |
| public static class PromptGenerator  {      private static List<string> prompts = new List<string>      {          // List of prompts excluded from code snip      };      public static string GetRandomPrompt()      {          Random rand = new Random();          int index = rand.Next(prompts.Count);          return prompts[index];      }  } |

Having this code in a separate file makes it easy to modify and reference throughout the program. Layers of this type of programming enables the creation applications and operating systems.