Date: 17th of April 2023



**CST1500 Coursework 1: E-T-R Password**

**Doyal Harshvardhan Vir**

**M00953762**

**ReadMe**

This program generates a random password by choosing a random combination of words from several files. The main file (ETR\_Password.c) includes a set of functions from the second file (Functions.c), which handles the file input/output and generates random numbers.

The code begins by defining the required functions, including a function to animate printing and generate random numbers, and several functions that read from files of different word lengths (4, 5, 6, and 7 letters). The read\_from\_\* functions return special address that points to a memory space that contains a random line from the corresponding file.

The Random\_file function randomly selects a file (4, 5, 6, or 7) and returns a pointer to a buffer containing a random word from that file. The Correct\_Parameter function checks the user input for the number of words and ensures that it is within the required range.

Finally, in the main function, the program calls the Intro function to print an ASII art, then calls the Generate\_Password function to generate the password.

The computer system being used is running the Linux Ubuntu operating system. The IDE being used is Visual Studio Code. To compile the code, the GCC compiler is being used through the terminal.

**Screenshots**

1.Compiling the program and running it with valid data.



A picture containing text, clock

Description automatically generated

2.Using invalid data.

Text

Description automatically generated

3.If dictionaries are not present.

