**C2 – Functions and Control Flow**

3.1 Part 1

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3.2 Part 2

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3.3 Part 3

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The speed is determined by how many lines of code the computer has to execute between each loop. When there was only printing out the numbers and no complex graphics, the program ran significantly faster. Therefore if you want your program to run faster, only use the most necessary lines of code to get the job done.

4. Optional Additional Work

In experimenting with changing the colours in the windows command line, I came into a problem in that it would print the change colour command as text. After discussing with my supervisor we came to the conclusion that it was a system error and nothing to do with the program I had written. I did some research into changing the colour of the windows command line and found this Microsoft website which stated that using the command “color (num)” would change the colour off all previous text and would therefore not work on a per character basis. Windows Colour command: <https://docs.microsoft.com/en-us/windows-server/administration/windows-commands/color>.

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