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| **Application/ Program name:** | CH5\_EX16 |
| **Written by:** | Allen J Myers |

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| **Purpose or problem definition:** |
| Program for user to guess a random number within 5 guesses. System will prompt user to guess a number and output whether or not their guess is very high, high, moderately high, somewhat high, or somewhat low. |
| **Program Procedures:** |
| System asks user to guess a randomly generated number between 0 and 100; system then determines difference between the guess and the random number. Outputs whether the guess is very high, high, moderately high, somewhat high, or somewhat low and then asks user to guess again, if and only if their number of guesses is lower than 5. |
| **Algorithm/Processing/Conditions:** |
| **Inputs:** |
| System prompts user to guess a number between 0 and 100; user input is a integer number between 0 and 100. |
| **Processes:** |
| System determines difference between the guess and the random number generated to determine which output to present to the user. |
| **Outputs:** |
| System outputs the value of very high, high, moderately high, somewhat high, or somewhat low depending on the difference in value between the guess and the random number. System then prompts user to guess again while number of guesses is less than 5. |
| **Notes & Restriction:** |
| Restrictions include negative numbers, values can only be positive integer values. |
| **Comments:** |
| Simple guessing game program that has a set loop. |