**Python 2 Self Test**

Write 3 Python projects based on each of the specified requirements. All 3 projects need to be completed (including testing) in 1 hour or less.

1. Project #1: Number divisibility
   1. Ask user for 2 inputs:
      1. The dividend number
      2. The divisor number
   2. Display whether or not the dividend is divisible by the divisor
   3. Don’t forget to have a way for the user to exit the program. For example: enter “e” to exit
   4. Example: enter 17331 as the dividend and 3 as the divisor. This program should display the following output: 17331 is divisible by 3
2. Project #2: Find the LCM (Least Common Multiple)
   1. Ask user for 2 inputs:
      1. The 1st number
      2. The 2nd number
   2. Calculate and display the LCM of the 2 numbers. Students need to develop the LCM logic from the ground up and not use available Python libraries.
   3. Don’t forget to have a way for the user to exit the program. For example: enter “e” to exit
   4. Example: find LCM (8,12). Enter 8 as the 1st number and 12 as the 2nd number. This program should display the following output: The LCM (8,12) is 24
3. Project #3: Guess the number game
   1. Use random function to generate a number between 1 and 10 unknown to user
   2. Ask user for a number between 1 – 10
   3. If the user input is the same with the number that the computer generate, then display a positive message, such as “Nice job! You guessed it!
   4. If the user input is not the same, then display a try again message, such as “Not quite right, but nice try though”
   5. Don’t forget to have a way for the user to exit the program. For example: enter “e” to exit