Java 2 Self-Test

Write 3 Java 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
   a. Ask user for 2 inputs:
      i. The dividend number
      ii. The divisor number
   b. Display whether or not the dividend is divisible by the divisor
   c. Don't forget to have a way for the user to exit the program. For example: enter "e" to exit
   d. 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)
   a. Ask user for 2 inputs:
      i. The 1st number
      ii. The 2nd number
   b. Calculate and display the LCM of the 2 numbers
   c. Don't forget to have a way for the user to exit the program. For example: enter "e" to exit
   d. 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
   a. Use random function to generate a number between 1 and 10 unknown to user
   b. Ask user for a number between 1 – 10
   c. 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!
   d. If the user input is not the same, then display a try again message, such as "Not quite right, but nice try though"
   e. Don't forget to have a way for the user to exit the program. For example: enter "e" to exit