TUTE 01

1. Write and run a Java program that prompts the user for his or her last name and first name separately and prints a greeting like this:

   Enter your last name: Perera
   Enter your first name: Chathura
   Hello, Chathura Perera

2. Write and run a Java program that initializes an integer variable n with the value 5814 and then uses the quotient and remainder operators to extract and print each digit of n. The output should look like this:

   n = 5814
   The digits of n are 5, 8, 1 and 4
   Hint: use n/ 1000 to extract the thousands digit from n, and the use n %= 1000 to remove the thousands digit from n.

3. Write and run a Java program that inputs an integer that represents a temperature on the Fahrenheit scale and then computes and prints its equivalent Celsius value. Use the conversion formula $C = 5(F - 32)/9$

4. Write and run a Java program that inputs an integer that represents a temperature on the Celsius scale and then computes and prints its equivalent Fahrenheit value. Use the conversion formula $F = 1.8C + 32$.

5. It has been observed that crickets tend to chirp in the summer at a rate that is related to the temperature by the formula $T = 40 + c/4$, Where c is the number of chirps per minute and T is the temperature in Fahrenheit degrees. Write and run a Java program that inputs the number of chirps per minute and outputs the temperature in decimal form.