TUTE 02

1. Write and run a Java program that does the following:
    I. Declare a String object named s containing the string “Call me Tharaka”.
    II. Print the entire string.
    III. Use the length () method to print the length of the string.
    IV. Use the CharAt () method to print the first character in the string.
    V. Use the CharAt () and the length () methods to print the last character in the string.
    VI. Use the indexOf () and the substring () methods to print the first word in the string.

2. Write and run a Java program that enters a 10- digit string as a typical U.S. telephone number, extracts the 3-digit area code, the 3-digit “exchange” and the remaining 4-digit number as separate strings, prints them and then prints the complete telephone number in the usual formatting.

A sample run might look like this:

Enter 10-digit telephone number: 1234567890

You entered 1234567890

The area code is 123

The exchange is 456

The number is 7890

The complete telephone number is (123) 456-7890

3. The Y2K problem was that many thousands of old software systems around the world had been using only two digits for the year in stored dates. It was feared that on January 1,2000, those dates were ,likely to be misinterpreted by the software as being January 1,1900, Thus causing unpredictable errors and system crashes.

Write a Java program that inputs a date in the form mm/dd/yy and outputs in the expanded form mm/dd/19yy . For example, the input 06/30/98 would be printed as 06/30/1998.