WIX1002 Fundamentals of Programming
Semester 1 2015/2016
Tutorial 6 Java Methods

1. Write statements for each of the following
    a. Define a static method that returns the maximum number from 3 integer parameters.
    b. Define a static method that that determine whether the given integer is a square number.
    c. Define a static method that use to compute combination function C(n,k). C(n,k) gives the number of different k-element subsets that can be found in a given set of n elements. C(n,k) = n! / (k! (n-k)!
    d. Define a static method that used to determine whether the parameter is a pentagonal number. A pentagonal number is a figurate number that extends the concept of triangular and square numbers to the pentagon. Pn = ½ n(3n -1)
    e. Define a static method that displays the number of letters and the number of digits of a String parameter.
    f. Define a static void method that generates 10 random numbers within 0 to 100 to the method's parameter. The random numbers can be accessed by the main method.
    g. Define a static void method that returns the area and the circumference of a circle given the argument is radius. Area = πr^2 and Circumference = 2 πr.
    h. Define a static method that generate random number within 0 – 10. The method will return the first random number that generate twice.