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

1. Write a Java method that returns the maximum of two integers. Then, write a Java program to use the method to get the maximum number of an array of 10 random integers within 0-100.

2. Write a Java method multiPrint(int n, char c) that prints n copies of character c. Then, write a Java program to use the method to display the triangles and diamonds.

3. Write a Java method that accepts an array of 10 integers. The method should reverse the integer in the array. Example, if the number is 1234, the number will change to 4321.

4. Write a Java method that implements Euclidean Algorithm to return the greatest common divisor of two positive integers. Then, write a program to get the GCD for **(24, 8) and (200, 625).**

5. Write a Java method that accepts three parameters, the method will compare whether the third parameter value is equal to the multiplication of parameter 1 and parameter 2. Then, write a Java multiplication game for any random number within 0 – 12.

    Example Output:

    ```
    Enter negative number to quit.
    5 x 8 = 40
    Enter negative number to quit.
    7 x 9 = 16
    Enter negative number to quit.
    6 x 6 = 36
    Enter negative number to quit.
    3 x 2 = -1
    Your Score is 2
    ```