

WIX1002 Fundamentals of Programming
Semester 1 2015/2016
Tutorial 4 Flow of Control (Repetition)

1. Write statements for each of the following
 - a. Display the square number of the first twelve integers starting from 1.
 - b. Display a 3-by-2 matrix using random number within 0 to 100.
 - c. Compute $n!$ where n is within 0 - 10.
 - d. Compute the following sum: $1 + 4 + 9 + \dots + 400$.
2. Correct the error for the following statements.
 - a.

```
for (x = 10; x > 0; x++)  
    sum += x;
```
 - b.

```
do  
    x += 2;  
    y += x;  
    System.out.println(x + " and " + y);  
while (x < 100)
```
 - c.

```
for ( x==1, y==20; x < y, x++, y-=2);  
    System.out.println(x & " " & y);
```
 - d.

```
i =1;  
while(i<10) {  
    if (i==10)  
        System.out.println("Program End");  
}
```
3. Write the statements that display the first ten values of the Fibonacci sequence. Given the formula $f_1 = 1$, $f_2 = 1$, $f_n = f_{n-1} + f_{n-2}$.
4. Write the statements that display the string in reverse order. (use `String.length()` to get the length of the string)