**COSC 1436 LAB 4 (EX. 5-3)**

**INSTRUCTIONS**

**Lab 4 Submitted via BLACKBOARD, NOT by email, ONE TRY ONLY.**

1. **SUBMIT this lab (using JAVA) VIA Blackboard INCLUDING attached files (SCREENSHOTS PREFERED, no ZIP or Word files) showing the CODE and the PROGRAM EXECUTED OUTPUT WITH more than one example.**
2. **This lab is due by NOON.**

**Your Tasks**

In this lab, the completed program should print the numbers 0 through 10, along with their values multiplied by 2 and by 10. In this lab, you should accomplish this using a for loop.

**Instructions**

**Task 1**: Write a for loop that uses the loop control variable to take on the values 0 through 10.

**Task 2**: In the body of the loop, multiply the value of the loop control variable by 2 and by 10.

An example of the program is shown below:

Number: 0

Multiplied by 2: 0

Multiplied by 10: 0

Number: 1

Multiplied by 2: 2

Multiplied by 10: 10

Number: 2

Multiplied by 2: 4

Multiplied by 10: 20

Number: 3

Multiplied by 2: 6

Multiplied by 10: 30

Number: 4

Multiplied by 2: 8

Multiplied by 10: 40

Number: 5

Multiplied by 2: 10

Multiplied by 10: 50

Number: 6

Multiplied by 2: 12

Multiplied by 10: 60

Number: 7

Multiplied by 2: 14

Multiplied by 10: 70

Number: 8

Multiplied by 2: 16

Multiplied by 10: 80

Number: 9

Multiplied by 2: 18

Multiplied by 10: 90

Number: 10

Multiplied by 2: 20

Multiplied by 10: 100

**CODE**

// NewMultiply.java - This program prints the numbers 0 through 10 along

// with these values multiplied by 2 and by 10.

// Input: None.

// Output: Prints the numbers 0 through 10 along with their values multiplied by 2 and by 10.

public class NewMultiply

{

public static void main(String args[])

{

String head1 = "Number: ";

String head2 = "Multiplied by 2: ";

String head3 = "Multiplied by 10: ";

int numberCounter; // Numbers 0 through 10.

int byTen; // Stores the number multiplied by 10.

int byTwo; // Stores the number multiplied by 2.

final int NUM\_LOOPS = 10; // Constant used to control loop.

System.out.println("0 through 10 multiplied by 2 and by 10" + "\n");

// Write for loop

}

} // End of NewMultiply class.