

# Counted Loops Practice

Complete at least up to the end of the **Intermediate** section of questions before submitting your work.

## Beginner Questions

1. Write a program that counts **from 1 to 10** and outputs all of the numbers in the range
2. Write a program that counts **from 5 to -5** and prints out all of the numbers in the range
3. Write a program that counts **from -5 to 10 by twos**, and prints out all of the numbers in the range
4. Write a program that counts **from -200 to 0 by twenties**, and prints out all of the numbers in the range

## Intermediate Question

1. Write a program that asks the user for two integers, **num1** and **num2**. Your program will then add all of the numbers from num1 to num2 including num1 and num2. For example if the numbers were 10 and 14, the result would be 60. Which is the result of adding  $10 + 11 + 12 + 13 + 14$
2. Write a program that has an array of 10 integers. It then randomly generates the ten values between 1 and 100, one at a time. It then uses a loop to output each element of the array 1 at a time.

## Advanced Questions:

1. Write a program that prints out the multiplication table from 1 to 9. It must do the multiplying itself, this is not an exercise just on output. It should output the resulting table in one single **println** statement. HINT: You need a loop within a loop (NOTE: Remember this is called nesting)

### Example Output:

	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18
3	3	6	9	12	15	18	21	24	27
...									

Notice the top row and left column are the headers for each row and column number. Also note the alignment of each number, including the double digit numbers.