

# Lab 8

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## Exercise 1 – Range of integers between two integers

Write a Java program that asks the user to input two integers and lists all integers between the two in proper order.

### Example 1:

Please input two integers: 3 9

{3, 4, 5, 6, 7, 8, 9}

### Example 2:

Please input two integers: 4 -2

{-2, -1, 0, 1, 2, 3, 4}

## Exercise 2 – Multiplication table

Write a Java program that asks the user to input a positive integer N between 1 and 9 then prints the multiplication table up to N.

### Example

Please input an integer between 1 and 9: 5

*	1	2	3	4	5
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

### Exercise 3 – Open sum

Write a Java program that keeps reading integers and adding them up until the user inputs a negative number. The program then prints the total and exits.

#### Example

```
Please input integer numbers. To terminate input
and print the total please enter a negative
integer: 1 1 1 2 5 -1
```

```
Total is 10.
```

### Exercise 4 – Max, Min & Average

Write a Java program that reads 10 integers then displays the maximum, minimum and average numbers.

#### Example

```
Please input 10 integers:1 2 3 4 5 -1 -2 -3 -4 -5
```

```
Max: 5
```

```
Min: -5
```

```
Average: 0.0
```

### Bonus – Conditional Max, Min & Average

Repeat Exercise 4 allowing negative integers, but considering only positive integers for Max and Min.

#### Example

```
Please input 10 integers:1 2 3 4 5 -1 -2 -3 -4 -5
```

```
Max: 5
```

```
Min: 1
```

```
Average: 0.0
```