Challenge: Write your First Higher-Order Function

Test yourself and implement what you have learned so far in this challenge.

We'll cover the following

Problem Statement

You need to create a higher-order function `arithmeticPrinter` which prints the result of an arithmetic function that has two parameters of type `Int` and returns a value of type `Int`.

In this challenge, you will assume that the following arithmetic functions have been declared:

```
def add(a: Int, b: Int): Int = {
  a + b
}

def subtract(a:Int, b:Int) = {
  a - b
}

def multiply(a:Int, b:Int) = {
  a * b
}

def divide(a:Int, b:Int) = {
  a / b
}
```

For instance, the `arithmeticPrinter` will take the `add` function as input and print its result.

Input

`arithmeticPrinter` has three parameters.

1. A function `f` which has two parameters of type `Int` and returns a value of type `Int`.
2. An integer `x`
3. An integer `y`

The input will be a function and two integers that will be passed to the function.

Output

The output will be the result of the arithmetic function.

Sample Input

```
add, 4, 9
```

Sample Output

```
13
```

Test Yourself

Write your code in the given area. Try the exercise by yourself first, but if you get stuck, the solution has been provided. Good luck!

This code requires the following environment variables to execute:

LANG	C.UTF-8

```
def arithmeticPrinter(f: (Int , Int) => Int, x: Int, y: Int) = {

  print(" ") // Write your own code in the print statement
}
```

Let’s go over the solution review in the next lesson.