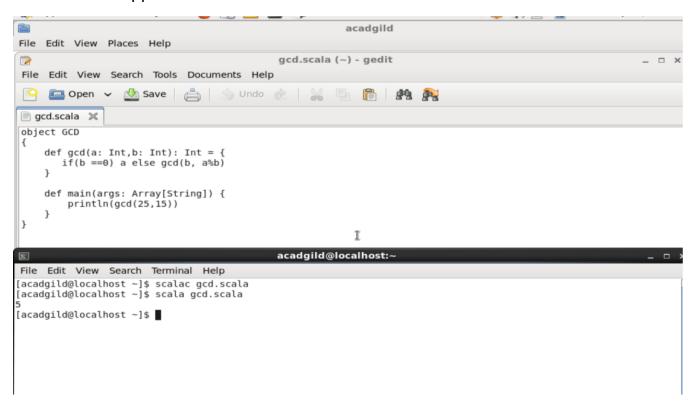
## **Session 15: SCALA BASICS 2**

# **Assignment 1**

#### Task 1

Create a scala application to find the GCD of two numbers.



#### Task 2

Fibonacci series (starting from 1) written in order without any spaces in between, thus producing a sequence of digits.

Write a Scala application to find the Nth digit in the sequence.

Write the function using standard for loop

### Write the function using recursion

#### Task 3

Find square root of number using Babylonian method.

- 1. Start with an arbitrary positive start value x (the closer to the root, the better).
- 2. Initialize y=1.
- 3. Do the following until desired approximation is achieved.
  - a) Get the next approximation for root using average of x and y
  - b) Set y=n/x

```
Run: Babylonian_method ×

C:\Program Files\Java\jdk1.8.0_181\bin\java.exe" ...
10.0

Process finished with exit code 0
```