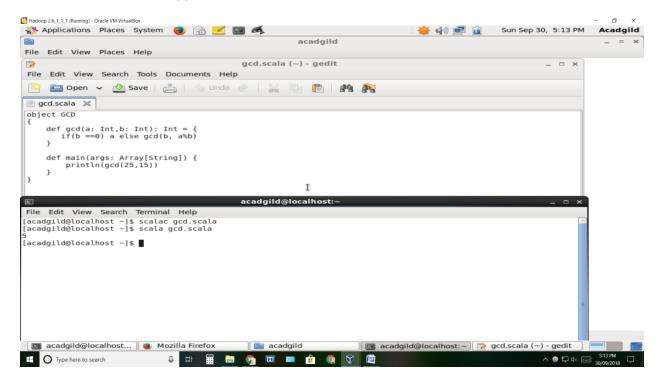
Session 15: SCALA BASICS 2: Assignment 1

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 following until desired approximation is achieved.
- a) Get the next approximation for root using average of x and y
- b) Set y = n/x

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untitled1 C:\Users\divymist\IdeaProject:
                              b object Babylonian method extends App {
▶ 📭 project [untitled1-build] sources roo
▼ 🖿 src
  ▼ ■ main
      ▼ I mutable_collet
          ArrayBuffer
          O Chap8_collection_fn
          fib
ofib_new
GCD
                                      return x;
          SET_mutable
          o test
        o jeetu
        tail
  ▶ test
                                  Babylonian_method > squareroot(n: Float)
```