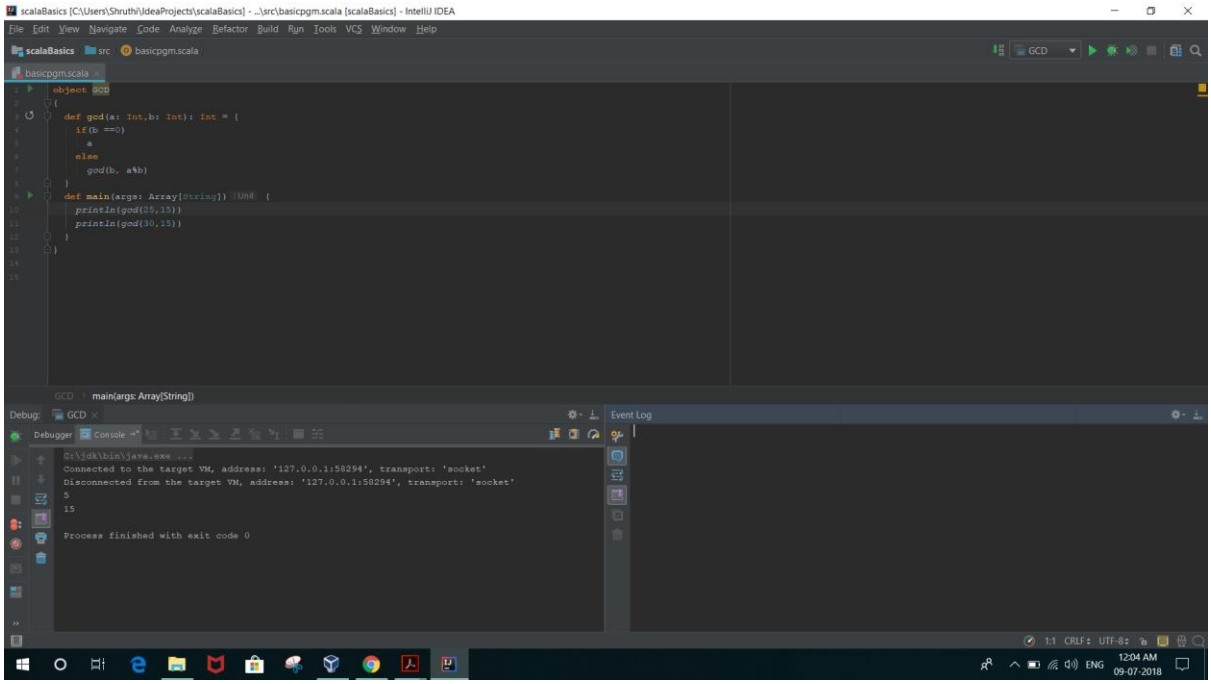
Assignment 15 : Scala Basics 2

Task 1

Create a Scala application to find the GCD of two numbers

Please find the below code for GCD of two numbers.



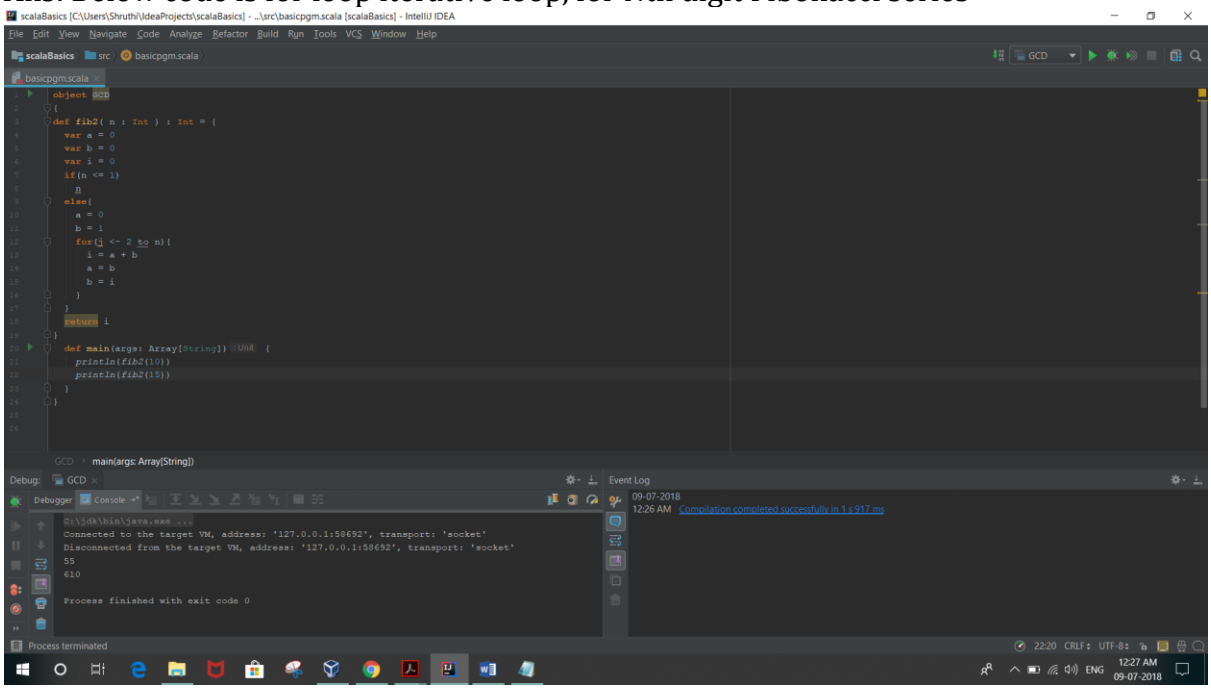
Task 2

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

Ans: Below code is for loop iterative loop, for Nth digit Fibonacci series



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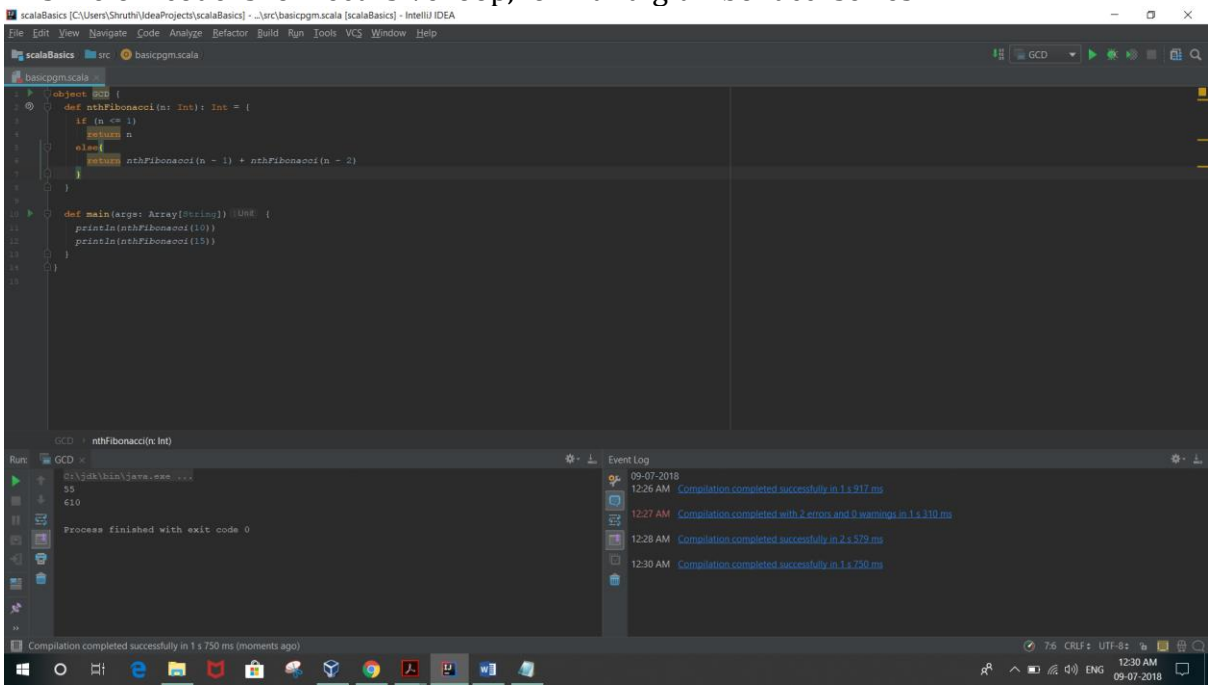
➢ Write the function using recursion

Ans: Below code is for recursive loop, for Nth digit Fibonacci series



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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

Ans: please find the code & answer for the given question