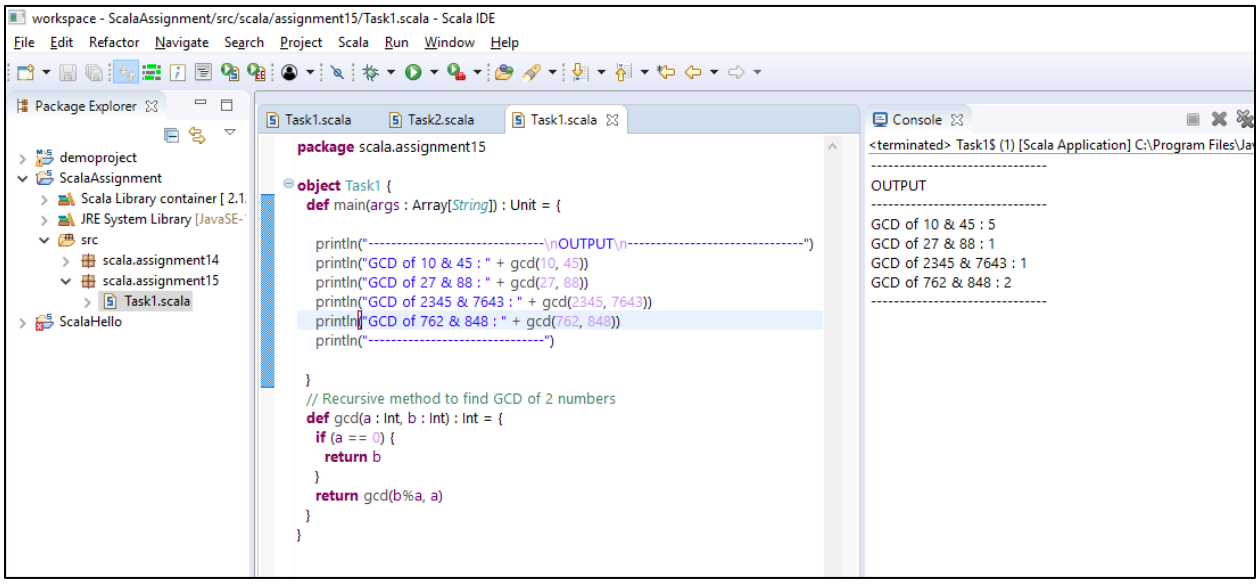
Session 15:
SCALA BASICS 2
Assignment 1

TASK 1

Create a Scala application to find the GCD of two numbers

EXECUTION:

Created a new scala object "Task1.scala". I have added a recursive method to calculate GCD of 2 numbers. Below is the screenshot of the program and the output of GCD for different set of numbers.



TASK 2

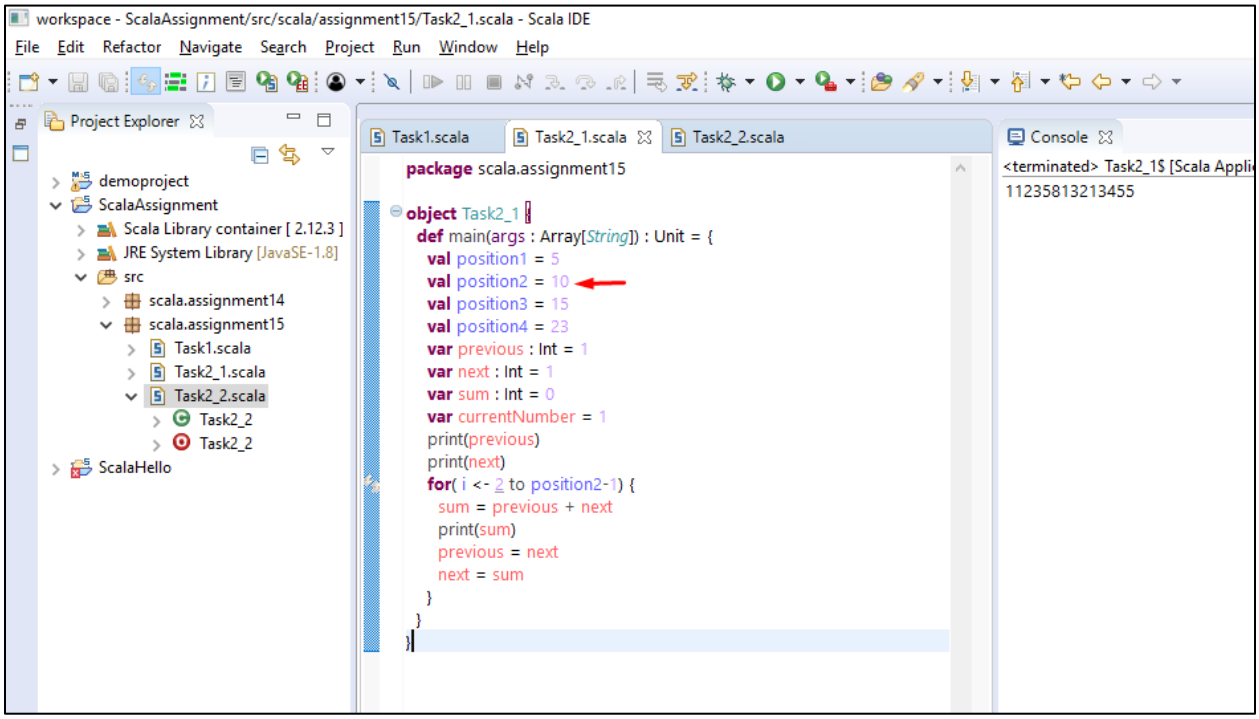
Fibonacci series (starting from 1) written in order without any spaces in between, thus producing a sequence of digits.

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

- Write the function using standard for loop
- Write the function using recursion

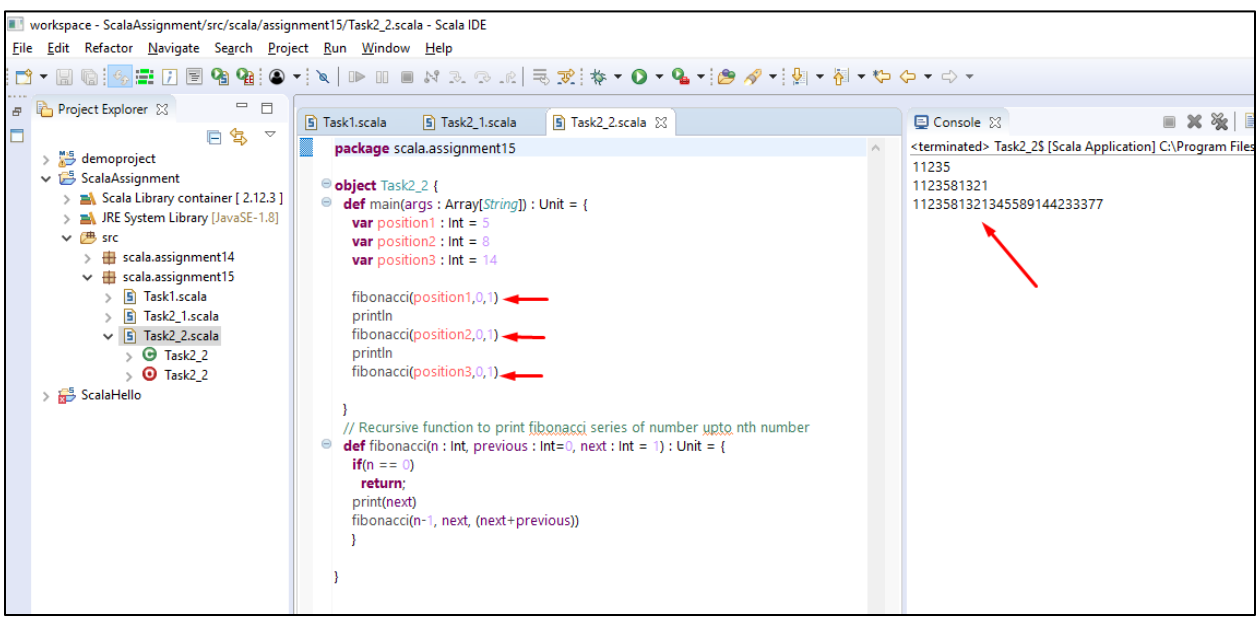
EXECUTION:

Write the function using standard for loop



Write the function using recursion

Created a scala program that generates Fibonacci series of numbers upto Nth digit usingrecursive function



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

EXECUTION

Created a scala program to calculate the square root of a number using Babylonian method.