

Session 13: SCALA - SESSION II

Assignment 13.1

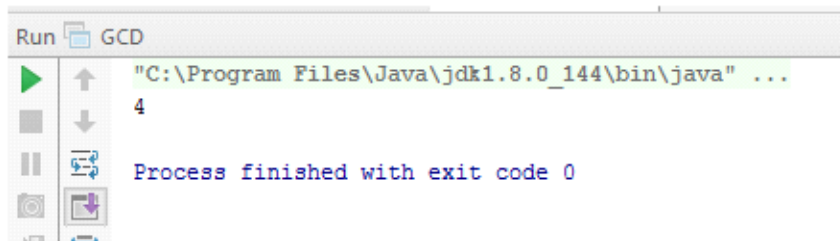
Create a Scala application to find the GCD of two numbers.

Greatest Common Divisor (GCD) of two or more integers, which are not all zero, is the largest positive integer that divides each of the integers.

For example, the **gcd** of **8** and **12** is **4**.

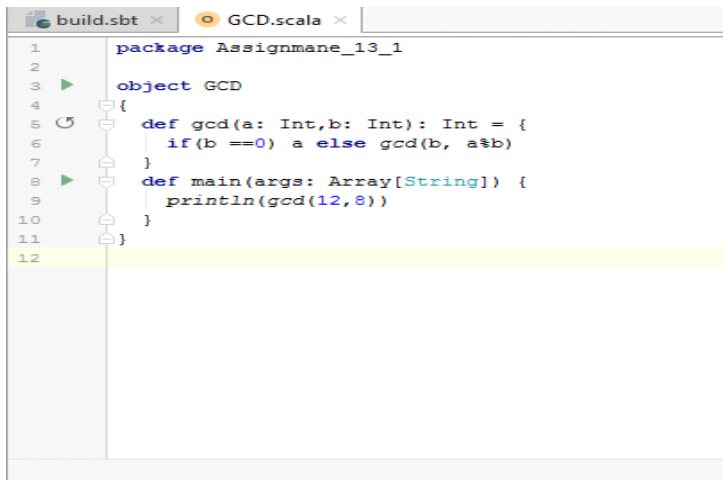
In the below scala code, we are going to find the gcd of the two numbers 12 and 8.

Required Output

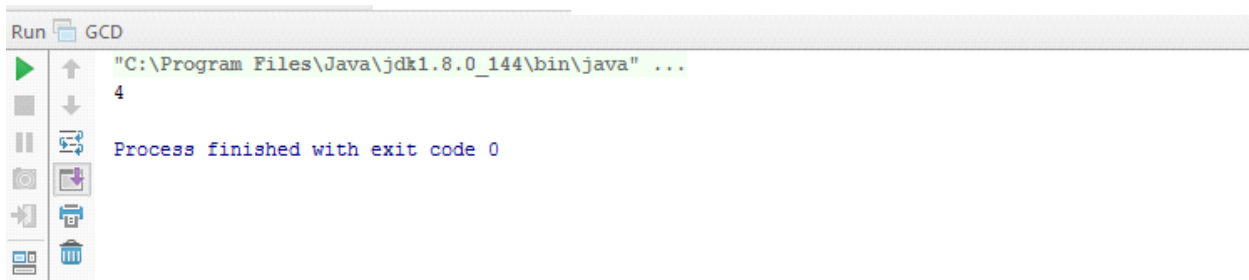


```
Run GCD
"C:\Program Files\Java\jdk1.8.0_144\bin\java" ...
4
Process finished with exit code 0
```

Screen Shot



```
build.sbt x GCD.scala x
1 package Assignmane_13_1
2
3 object GCD
4 {
5   def gcd(a: Int,b: Int): Int = {
6     if(b ==0) a else gcd(b, a%b)
7   }
8   def main(args: Array[String]) {
9     println(gcd(12,8))
10  }
11 }
12
```



```
Run GCD
"C:\Program Files\Java\jdk1.8.0_144\bin\java" ...
4
Process finished with exit code 0
```