

Assignment 16

Task1

Create a calculator to work with rational numbers.

```
class Calc (a:Int, b:Int) {  
  def this(a: Int) = this(a, 1)  
  def sum() : Int = a+b;  
  def sub() : Int = a-b;  
  def mul() : Int = a*b;  
  def div() : Int = a/b;  
  def gcd(a: Int,b: Int): Int = {  
    if(b ==0) a else gcd(b, a%b)  
  }  
}  
  
object Calc{  
  def main(args: Array[String]) {  
    val calc = new Calc(9,3);  
    println("Addition =" + calc.sum());  
    println("Difference =" + calc.sub());  
    println("Product =" + calc.mul());  
    println("Division =" + calc.div());  
    println("GCD = " + calc.gcd(25,15));  
  }  
}
```

Screenshot

