


Assignment 13.1

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

In the following command, we are defining the function of GCD to return the GCD of 2 numbers.


In the following we are getting an output of GCD if b is not equal to 0

```
def gcd(a: Int, b: Int): Int = {  
  if (b == 0) a  
  else gcd(b, a % b)  
}  
  
gcd(18, 36)
```

```
33  
34  def gcd(a: Int, b: Int): Int = {  
35   if (b == 0) a  
36   else gcd(b, a % b)  
37 }  
38  
39 gcd(18, 36)  
40 |
```

```
34 gcd: gcd[(val a: Int, val b: Int) => Int  
35  
36  
37  
38  
39 res6: Int = 18  
40
```

```
def gcd(a: Int, b: Int): Int = {  
  if (b == 0) a  
  else gcd(b, a % b)  
}  
  
gcd(25, 0)
```

```
33  
34  def gcd(a: Int, b: Int): Int = {  
35   if (b == 0) a  
36   else gcd(b, a % b)  
37 }  
38  
39 gcd(25, 0)  
40 |
```

```
33  
34 gcd: gcd[(val a: Int, val b: Int) => Int  
35  
36  
37  
38  
39 res6: Int = 25  
40
```

The above command we get the output of GCD of 2 numbers if any one values is 0