databricks Scala I Session 43

Task 2

```
//
/*
Given a list of strings - List[String] (“alpha”, “gamma”, “omega”, “zeta”, “beta”)
  - find count of all strings with length 4
  - convert the list of string to a list of integers, where each string is mapped to its corresponding length
  - find count of all strings which contain alphabet ‘m’
  - find the count of all strings which start with the alphabet ‘a’
*/


// Creat List
val list = List("alpha", "gamma", "omega", "zeta", "beta")

list: List[String] = List(alpha, gamma, omega, zeta, beta)

// find count of all strings with length 4
list.count(_.length == 4)

res2: Int = 2

// convert the list of string to a list of integers, where each string is mapped to its corresponding length
list.map(s => (s.length))

res3: List[Int] = List(5, 5, 5, 4, 4)

// - find count of all strings which contain alphabet ‘m’
list.map(s => s.count(_ == 'm')).count(s => s != 0)

res4: Int = 2

// - find the count of all strings which start with the alphabet ‘a’
list.map(s => s(0) == 'a').count(s => s == true)

res5: Int = 1
```

Task 3

```
def gcd(a: Int, b: Int): Int = if (b == 0) a.abs else gcd(b, a % b)

gcd: (a: Int, b: Int)Int
```

```
gcd(10,100)
```

```
res13: Int = 10
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res14: Int = 4
```