

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'

```
Acadgild Spark VM New [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
The Virtual Machine reports that the guest OS does not support mouse pointer integration in the current video mode. You need to capture the mouse (by clicking over the VM display or pressing the host key) in order to use the mouse inside the guest OS.

acadgild@localhost:~
File Edit View Search Terminal Help
scala> val listStr = List[String]("alpha", "gamma", "omega", "zeta", "beta")
listStr: List[String] = List(alpha, gamma, omega, zeta, beta)

scala> listStr.filter(s => s.length == 4)
res0: List[String] = List(zeta, beta)

scala> listStr.count(s => s.length == 4)
res1: Int = 2

scala> val listLengths = listStr.map(_.length)
listLengths: List[Int] = List(5, 5, 5, 4, 4)

scala> val StrLengthPairs = listStr.zip(listLengths)
StrLengthPairs: List[(String, Int)] = List((alpha,5), (gamma,5), (omega,5), (zeta,4), (beta,4))

scala> val StrLengthPairs = listStr.zip(listLengths)
StrLengthPairs: List[(String, Int)] = List((alpha,5), (gamma,5), (omega,5), (zeta,4), (beta,4))

scala>
```

```
[acadgild@localhost ~]$ scala
Welcome to Scala version 2.11.7 (Java HotSpot(TM) 64-Bit Server VM, Java 1.8.0_161).
Type in expressions to have them evaluated.
Type :help for more information.

scala> val listStr = List[String]("alpha","gamma","omega","zeta","beta")
listStr: List[String] = List(alpha, gamma, omega, zeta, beta)

scala> listStr.filter(s => s.length == 4)
res0: List[String] = List(zeta, beta)

scala> listStr.count(s => s.length == 4)
res1: Int = 2

scala> val listLengths = listStr.map(_.length)
listLengths: List[Int] = List(5, 5, 5, 4, 4)

scala> val StrLengthPairs = listStr.zip(listLengths)
StrLengthPairs: List[(String, Int)] = List((alpha,5), (gamma,5), (omega,5), (zeta,4), (beta,4))

scala> scala> listStr.count(_.contains('m'))
res16: Int = 2

scala> listStr.count(_.startsWith("a"))
res18: Int = 1
```

Task3

GCD of Two Numbers

```
GCD of Two Numbers

scala> object GCD{
  | def gcd(a:Int, b:Int): Int = {
  |   if(b ==0) a else gcd(b, a%b)
  | }
  |
  | def main(args: Array[String]) {
  |   println(gcd(25,15))
  | }
  | }
defined object GCD

scala> GCD.gcd(25,15)
res19: Int = 5
```

