databricks Assignment_22.1

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Task 1
Follow the below link document steps to download and import AcadgildSpark VM in the Oracle
Virtual
Box.
64-bit VM 32-bit VM
NOTE: If your system is compatible with 64 bit VM, then please download the Acadgild Spark 64
Bit file,
else download the Acadgild Spark 32 Bit file from the below link.


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’


//find count of all strings with length 4
val los = List("alpha", "gamma", "omega", "zeta", "beta")
los.filter(x => x.length == 4).size

los: List[String] = List(alpha, gamma, omega, zeta, beta)
res1: Int = 2

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

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

//find count of all strings which contain alphabet ‘m’
los.count(x => x.contains('m'))

res7: Int = 2

//find the count of all strings which start with the alphabet ‘a’
los.count(x => x.startsWith("a"))

res11: Int = 1

Task 3
Create a Scala application to find the GCD of two numbers.


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

}

defined class GCD
warning: previously defined object GCD is not a companion to class GCD.
Companions must be defined together; you may wish to use :paste mode for this.

gcd: GCD = GCD@4739ba77
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res13: Int = 10
```