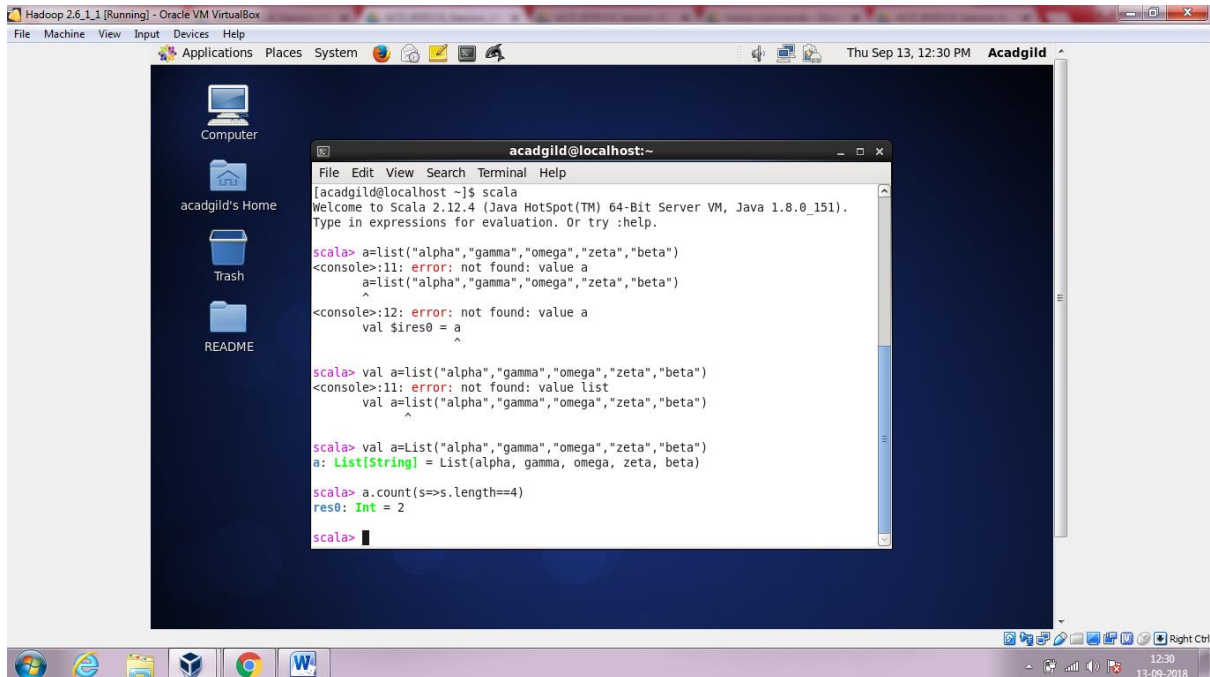


Task 1

Count list of string with length of 4



```
acadgild@localhost:~$ scala
Welcome to Scala 2.12.4 (Java HotSpot(TM) 64-Bit Server VM, Java 1.8.0_151).
Type in expressions for evaluation. Or try :help.

scala> a=list("alpha","gamma","omega","zeta","beta")
<console>:11: error: not found: value a
a=list("alpha","gamma","omega","zeta","beta")
^
<console>:12: error: not found: value a
val $ires0 = a
^

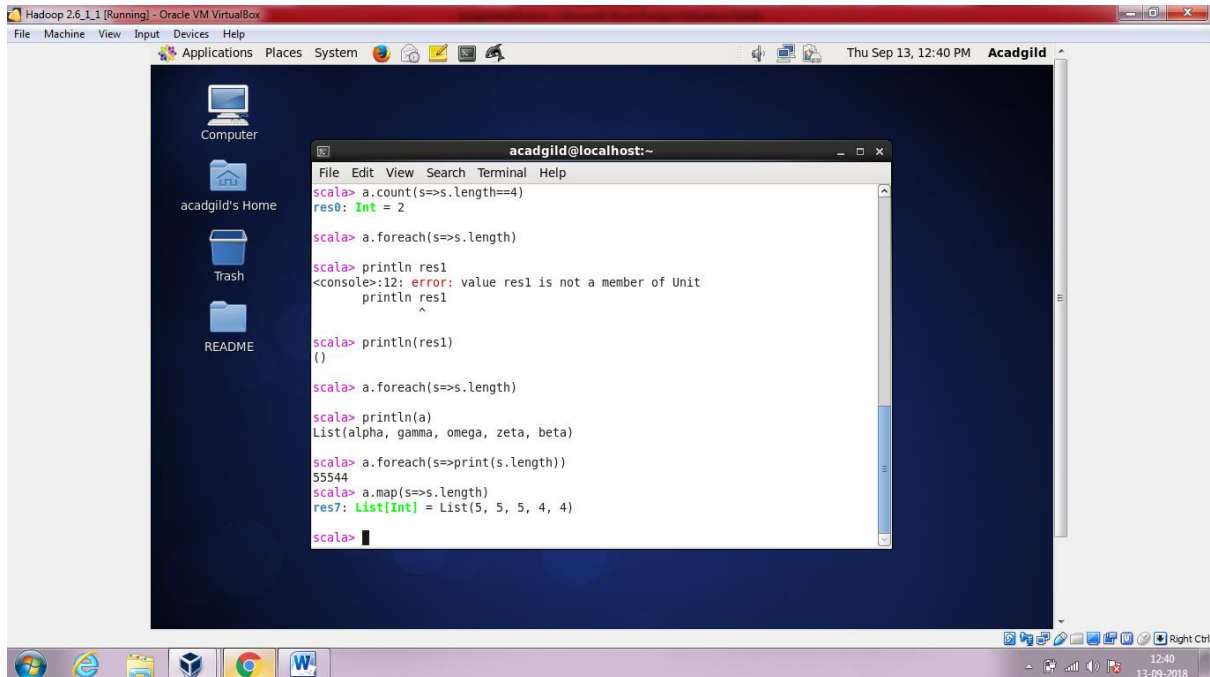
scala> val a=list("alpha","gamma","omega","zeta","beta")
<console>:11: error: not found: value list
val a=list("alpha","gamma","omega","zeta","beta")
^

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

scala> a.count(s=>s.length==4)
res0: Int = 2

scala>
```

Convert the list of string to a list of integers, where each string is mapped to its corresponding length.



```
scala> a.count(s=>s.length==4)
res0: Int = 2

scala> a.foreach(s=>s.length)

scala> println res1
<console>:12: error: value res1 is not a member of Unit
println res1
^

scala> println(res1)
()

scala> a.foreach(s=>s.length)

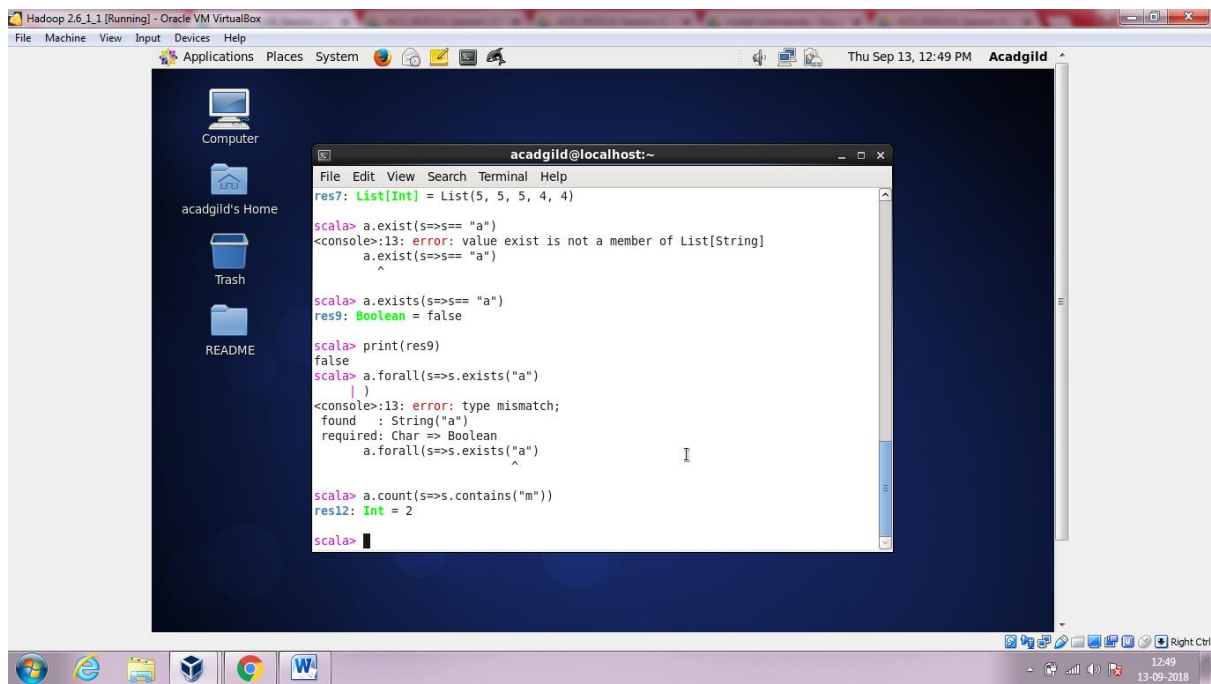
scala> println(a)
List(alpha, gamma, omega, zeta, beta)

scala> a.foreach(s=>print(s.length))
55544

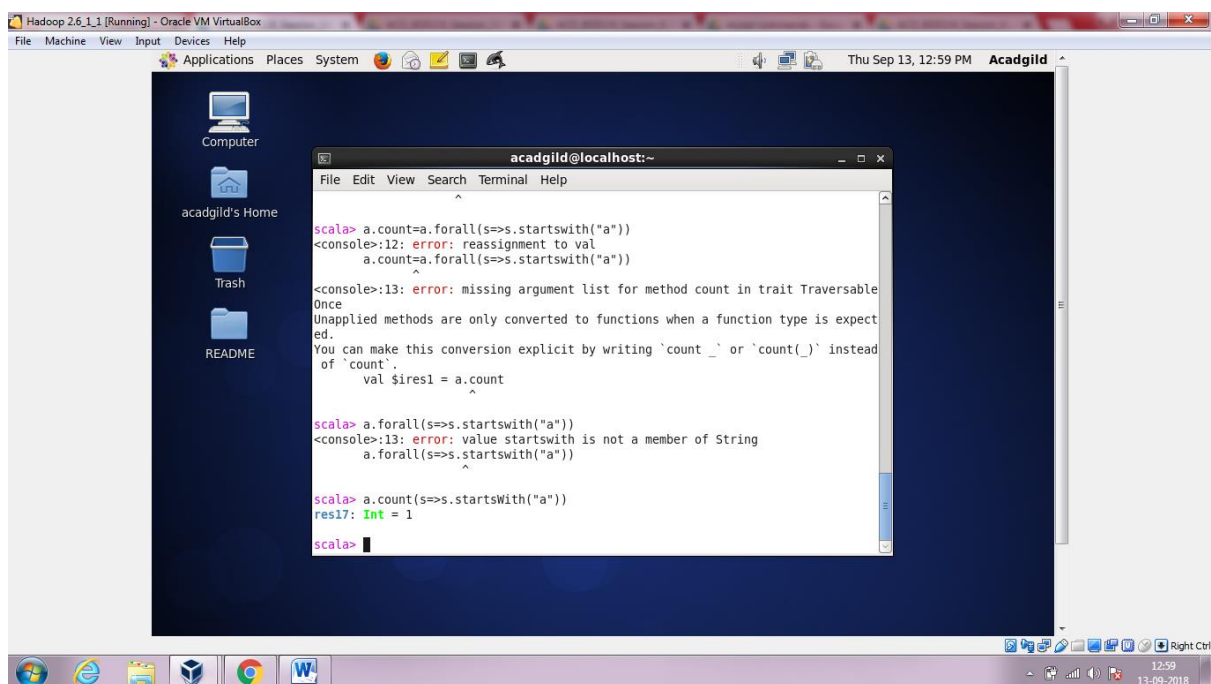
scala> a.map(s=>s.length)
res7: List[Int] = List(5, 5, 5, 4, 4)

scala>
```

Find count of all strings which contain alphabet 'm'.

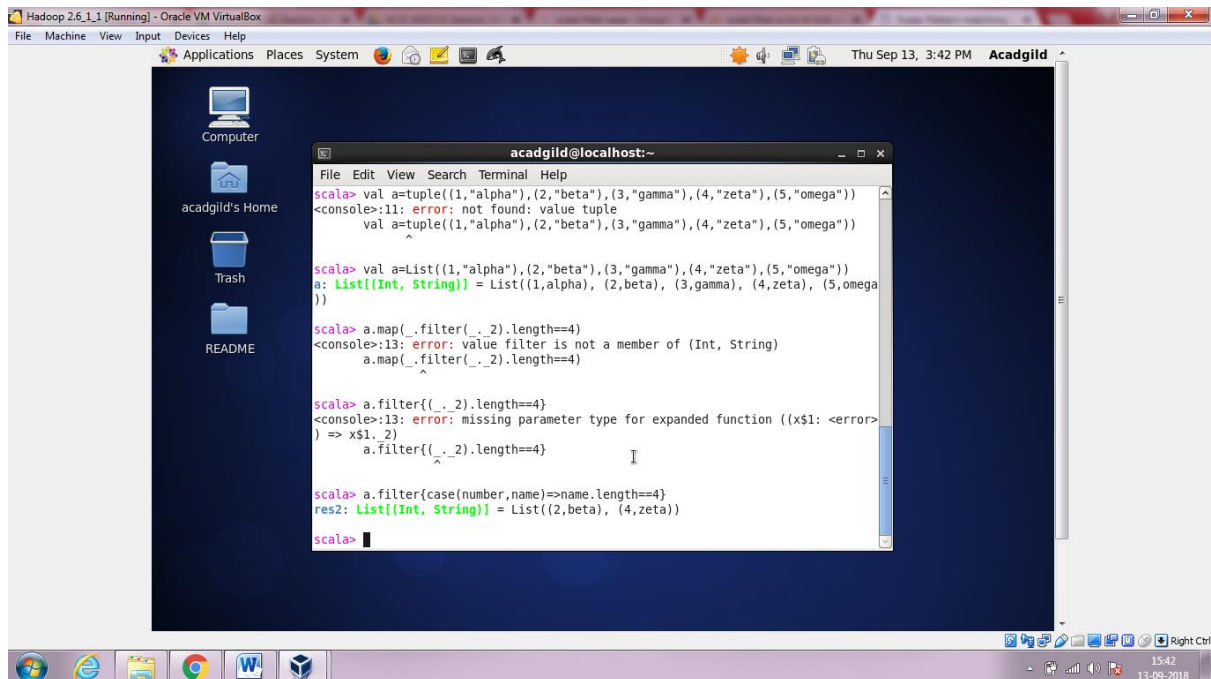


Find the count of all strings which start with the alphabet 'a'.

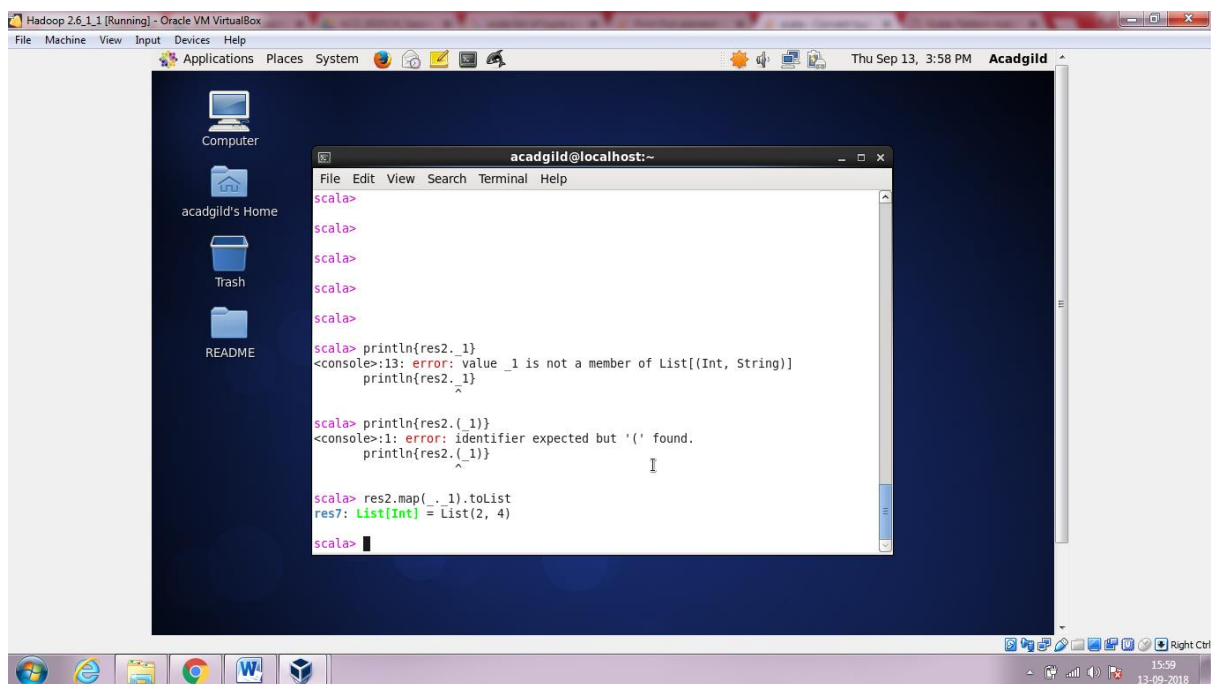


Task2

print the numbers where the corresponding string length is 4.

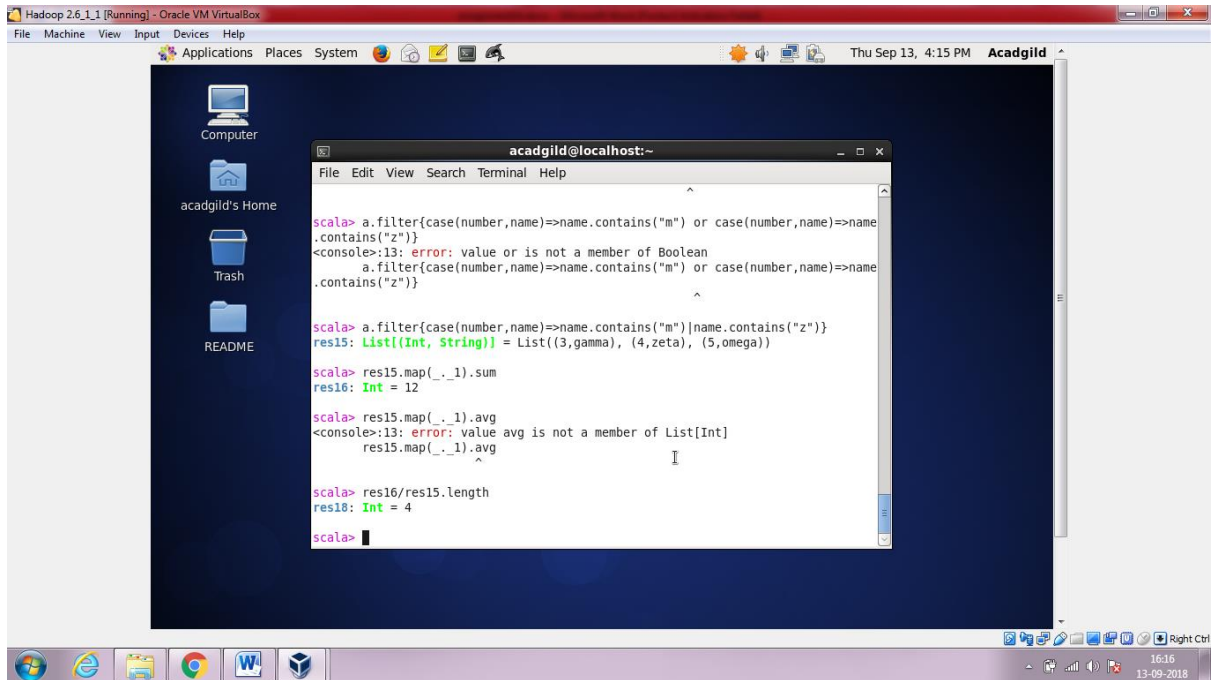


```
acadgild@localhost:~  
File Edit View Search Terminal Help  
scala> val a=tuple(1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"omega")  
<console>:11: error: not found: value tuple  
    val a=tuple(1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"omega")  
           ^  
scala> val a=List((1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"omega"))  
a: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))  
scala> a.map(_.filter(_._2).length==4)  
<console>:13: error: value filter is not a member of (Int, String)  
    a.map(_.filter(_._2).length==4)  
           ^  
scala> a.filter(_._2).length==4  
<console>:13: error: missing parameter type for expanded function ((x$1: <error>  
) => x$1._2)  
    a.filter(_._2).length==4  
           ^  
scala> a.filter(case(number,name)=>name.length==4)  
res2: List[(Int, String)] = List((2,beta), (4,zeta))  
scala>
```



```
acadgild@localhost:~  
File Edit View Search Terminal Help  
scala>  
scala>  
scala>  
scala>  
scala> println(res2._1)  
<console>:13: error: value _1 is not a member of List[(Int, String)]  
    println(res2._1)  
           ^  
scala> println(res2._1)  
<console>:1: error: identifier expected but '(' found.  
    println(res2._1)  
           ^  
scala> res2.map(_._1).toList  
res7: List[Int] = List(2, 4)  
scala>
```

- find the average of all numbers, where the corresponding string contains alphabet 'm' or alphabet 'z'.



```
acadgild@localhost:~  
File Edit View Search Terminal Help  
  
scala> a.filter(case(number,name)=>name.contains("m") or case(number,name)=>name.contains("z"))  
<console>:13: error: value or is not a member of Boolean  
    a.filter(case(number,name)=>name.contains("m") or case(number,name)=>name.contains("z"))  
    ^  
scala> a.filter(case(number,name)=>name.contains("m")|name.contains("z"))  
res15: List[(Int, String)] = List((3,gamma), (4,zeta), (5,omega))  
scala> res15.map(_._1).sum  
res16: Int = 12  
scala> res15.map(_._1).avg  
<console>:13: error: value avg is not a member of List[Int]  
    res15.map(_._1).avg  
    ^  
scala> res16/res15.length  
res18: Int = 4  
scala>
```