

Code:

```
package core

object scalAssignment1 {

  def main(args: Array[String]): Unit = {
    val params = new Array[String](5)
    params(0) = "alpha"
    params(1) = "gamma"
    params(2) = "omega"
    params(3) = "zeta"
    params(4) = "beta"

    val myList = List("alpha", "gamma", "omega", "zeta", "beta")
    println(myList)

    //find the count of length 4 list items
    var j = 0
    println(myList.count(s => s.length()
      == 4))

    println("length 4 list item count is " + j)

    // list with length of the items in myList
    var l = List[Int]()
    for (i <- myList) {
      l = i.length() :: l
    }
    println(l)

    //myList.forall(s => s.startsWith("m"))
    var m_count = 0
    for (i <- myList) {
      if (i.contains("m")) {
        m_count += 1
      }
    }
    println("m_count is " + m_count)

    var a_count = 0
    for (i <- myList) {
      if (i.startsWith("a")) {
        a_count += 1
      }
    }

    println("m_count is " + a_count)

    // GCD

    println(gcd(25, 15))
  }

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

```
Applications Places System [icons] Sun Dec 23, 5:47 AM acadgild
acadgild@localhost: ~/Desktop
File Edit View Search Terminal Help
[acadgild@localhost Desktop]$ spark -help
bash: spark: command not found
[acadgild@localhost Desktop]$ 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> 1+1
res0: Int = 2

scala> 100/2
res1: Int = 50

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

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

scala> println(myList.count(s => s.length() == 4))
| )
|
|
You typed two blank lines. Starting a new command.

scala> println(myList.count(s => s.length() == 4))
2

scala> var l = List[Int]()
l: List[Int] = List()

scala> for (i <- myList){ l = i.length() :: l}

scala> println(l)
List(4, 5, 5, 4, 5)

scala> var m_count = 0
m_count: Int = 0

acadgild@localhost: ~/...
```

```
scala> for (i <- myList) {if(i.contains("m")){ m_count += 1}}
scala> println("m_count is " +m_count)
m_count is 2

scala> for (i <- myList) {if(i.startsWith("a")){ m_count += 1}}
<console>:13: error: value startsWith is not a member of String
    for (i <- myList) {if(i.startsWith("a")){ m_count += 1}}
                        ^

scala> for (i <- myList) {if(i.contains("a")){ m_count += 1}}
scala> m_count
res10: Int = 2

scala> var m_count_2 = 0
m_count_2: Int = 0

scala> for (i <- myList) {if(i.contains("a")){ m_count += 1}}
scala> for (i <- myList) {if(i.contains("a")){ m_count_2 += 1}}
scala> println(m_count_2)
0

scala>
scala> for (i <- myList) {if(i.contains("a^")){ m_count_2 += 1}}
scala> println(m_count_2)
0

scala> for (i <- myList) {if(i.startsWith("a")){ m_count_2 += 1}}
scala> m_count_2
res17: Int = 1

scala> █
```