Task -1:

1. **Given a list of strings - List[String] (“alpha”, “gamma”, “omega”, “zeta”, “beta”)**
   - **Find count of all strings with length 4.**

```
scala> string_list
res28: List[String] = List(alpha, gamma, omega, zeta, beta)

scala> string_list.count(x => x.length==4)
res29: Int = 2
```

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

```
scala> string_list.map(x => x + " - " + x.length)
res34: List[String] = List(alpha - 5, gamma - 5, omega - 5, zeta - 4, beta - 4)
```

3. **Find count of all strings which contain alphabet ‘m’**

```
scala> string_list.count(x => x.contains("m"))
res38: Int = 2
```

4. **Find the count of all strings which start with the alphabet ‘a’.**

```
scala> string_list.count(x => x.startsWith("a"))
res40: Int = 1
```

Task -2

Creating a tuple –

```
scala> val tuple = ((1, "aplha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))
tuple: ((Int, String), (Int, String), (Int, String), (Int, String), (Int, String)) = ((1,aplha),(2,beta),(3,gamma),(4,zeta),(
5,omega))

scala> tuple
res41: ((Int, String), (Int, String), (Int, String), (Int, String), (Int, String)) = ((1,aplha),(2,beta),(3,gamma),(4,zeta),(
5,omega))
```

1. **Print the numbers where the corresponding string length is 4.**

```
scala> tuple.filter(_._2.length==4).foreach(x => println(x._2))
beta
zeta
```

2. **Find the average of all numbers, where the corresponding string contains alphabet ‘m’ or alphabet ‘z’.**

```
scala> tuple.filter(_._2.contains("m")).map(_._1).sum
res111: Int = 8
```