

1. Create a list of tuples, where the 1st element of the tuple is an int and the second element is a string.

Example - ((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))

**For the above list, print the numbers where the corresponding string length is 4**

```
val list_tuple = ((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))
```

```
for (value <- list_tuple)
```

```
{
```

```
    if (value._2.length==4)
```

```
        println(value._1)
```

```
}
```

```
scala> for (value <- list_tuple)
| {
|   if (value._2.length==4)
|   println(value._1)
| }
2
4
scala> |
```

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

```
val list = List((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))
val list_contains_mz = list.map(s=>(s._1,s._2.contains("m") || s._2.contains("z")))
val list_true_sum = list_contains_mz.filter(s=>s._2==true).map(m=>m._1).sum
val list_true_len = list_contains_mz.filter(s=>s._2==true).length
val result = list_true_sum/list_true_len
print(result)
```

```
scala> val list = List((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))
list: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))

scala> val list_contains_mz = list.map(s=>(s._1,s._2.contains("m")||s._2.contains("z")))
list_contains_mz: List[(Int, Boolean)] = List((1,false), (2,false), (3,true), (4,true), (5,true))

scala> val list_true_sum = list_contains_mz.filter(s=>s._2==true).map(m=>m._1).sum
list_true_sum: Int = 12

scala> val list_true_len = list_contains_mz.filter(s=>s._2==true).length
list_true_len: Int = 3

scala> val result = list_true_sum/list_true_len
result: Int = 4

scala> print(result)
4
scala>
```