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//Creating a list of tuples, where the 1st element of the tuple is an
//int and the second element is a string.
//SOLUTION
val tup = (
  (1, "alpha"),
  (2, "beta"),
  (3, "gamma"),
  (4, "zeta"),
  (5, "omega")
)
//Output
tup: ((Int, String), (Int, String), (Int, String),
(Int, String)) = ((1, alpha), (2, beta), (3, gamma), (4, zeta), (5, omega))
// <<<<---- TASK 1 ---->>>>
//for the above list, print the numbers where the corresponding
//string length is 4
//SOLUTION 1
(Below statement prints Number as well as String)
val tup4 = tup.productIterator.map{case(k,v) =>
if(v.toString.length==4) (k,v) else null}.filter(x => x!=null)
tup4.foreach(println)
//Output
tup4: Iterator[(Any, Any)] = non-empty iterator
(2, beta)
(4, zeta)
res0: Unit = ()
(Below statement prints Number only)
var tup44 = tup.productIterator.map{case(k, v) =>
if(v.toString.length==4) k else null}.filter(x => x!=null)
tup44.foreach(println)
//Output
tup44: Iterator[Any] = non-empty iterator
4
res1: Unit = ()
```

```
(Below statement prints Number as well as String)
tup.productIterator.map{case(k,v) => if(v.toString.length==4) (k,v)
//Output
(2, beta)
(4, zeta)
res2: Unit = ()
(Below statement prints Number only)
tup.productIterator.map{case(k,v) => if(v.toString.length==4) k else
//Output
res3: Unit = ()
// ***********
// <<<<---- TASK 2 ---->>>>
//find the average of all numbers, where the corresponding string
//contains alphabet 'm' or alphabet 'z'
//SOLUTION 1
var tup9 = tup.productIterator.map{case(k,v) =>
if(v.toString.matches(".*m.*")||v.toString.matches(".*z.*")) k else
tup9.foreach(println)
tup9.reduce( + )./(tup9.length)
//Output
tup9: List[Int] = List(3, 4, 5)
4
res4: Unit = ()
res5: Int = 4
```