

Assignment 15

Q1. Write a program to create a list of 1 to 100 numbers. Create second list from the first list selecting numbers which are perfect square. Display it

Ans:

object list_square

```
{  
    def main(args:Array[String])  
    {  
        val y = List.range(1,101)  
        println("first list of range 1 to 100 => "+y)  
        val a = y.filter(n => n % 2 == 0)  
        println("square => "+a)  
    }  
}
```

Output:

List(3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101)

List(3, 7, 9, 11, 13, 17, 19, 21, 23, 27, 29, 31, 33, 37, 39, 41, 43, 47, 49, 51, 53, 57, 59, 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 87, 89, 91, 93, 97, 99, 101)